

**1972
census
OF
manufactures**



VOLUME II

Industry Statistics

Part 2.

SIC Major Groups 27-34



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VOLUME II

Industry Statistics

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Industry Statistics

Part 2

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The review and issuance of the final industry and State publications were done on a flow basis. Errors were uncovered for a limited number of data cells after the final publications were issued. Because of the expense involved, corrections were made to the previously published data only if they resulted in a revision of 3 percent or more for an individual industry or 1 percent or more for a State. These corrections are included in the final volumes.

All errors identified in any phase of the review were carried to the computer file used to produce the final subject and special reports. Therefore, those reports represent the most accurate data available.

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I. GENERAL BACKGROUND

1. THE ECONOMIC CENSUSES

General.—The economic censuses provide a comprehensive statistical profile of a large segment of the national economy. This program includes censuses of manufactures, retail trade, wholesale trade, selected services industries, mineral industries, construction industries, and transportation. In 1972, these censuses accounted for nearly 77 percent of the \$785 billion of national income originating in the private sector. The principal industry groups not covered were finance, insurance, and real estate; agriculture and forestry; communications; electric, gas, and sanitary services; and health and medical services, except for laboratories operating on a profit basis.

Uses and Users of Census Data.—The economic censuses are the primary source of facts about the structure and functioning of the economy and therefore provide information essential both for government and business. They furnish an important part of the framework for such composite measures as the national accounts. The census measures also provide weights and serve as benchmarks for current surveys of industrial activity and for indexes of industrial production, productivity, and price, all of which are essential in developing the general background for understanding particular economic situations.

There is widespread use of the economic censuses by manufacturers and distributors who need to establish measures of

their potential markets in terms of areas, kinds of business, and kinds of products; and by managers in various industries and trades who need facts for purposes of economic or sales forecasting, for analysis of sales performance, for the layout of sales territories, for the allocation of advertising budgets, and for the location of plants, warehouses, and stores. For these business purposes, census facts are invaluable. Likewise, trade and professional associations need census information to learn how their industry is changing; chambers of commerce and State and local governments need to understand the business structure and changes occurring in their areas. Business magazines and academic researchers rely on census facts as background for many of their articles.

Following every census, reports are purchased by thousands of business and other users; likewise, census facts are widely disseminated by trade associations, business journals, and the daily press; and census volumes are available in all the major public and college libraries.

History.—The first statistical survey which can be called an economic census covered the year 1809, when inquiries on manufacturing were included with the 1810 census of population. Although the results of this pioneer effort were unsatisfactory by modern standards,¹ continued interest in measure-

¹ For an appraisal of early censuses of manufacturing, see Meyer H. Fishbein, "The Censuses of Manufactures 1810-1890." National Archives Publication No. 63-22, June 1963. Government Printing Office.

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ment of the Nation's economic progress led to successive improvements during the 19th century. By 1890, the statistical standards and procedures followed in conducting the censuses were of a fully professional quality.

All of the decennial censuses from 1810 through 1940, with the exception of 1830, included questions on manufacturing. Inquiries on mining first appeared in 1840, and censuses of mineral industries were conducted decennially through 1940. Although some business-related data were

collected in 1840, the first census of business was taken for the year 1929. This included retail trade, wholesale trade, and construction; selected service trades were covered beginning with 1933. Dates of these and other economic censuses from 1809 are shown in table A.

Enterprise Statistics.—The coordinated collection and tabulation of comparable data for several sectors beginning with 1954 has permitted the Census Bureau to develop its enter-

TABLE A. Years Covered by U.S. Economic Censuses: 1809 to 1972

Year covered	Manufactures	Mineral industries	Fisheries	Construction industries	Retail trade	Wholesale trade	Selected service industries	Transportation
1809	X	—	—	—	—	—	—	—
1819	X	—	—	—	—	—	—	—
1839	X	—	—	—	—	—	—	—
1840	—	X	—	—	—	—	—	—
1849	X	—	—	—	—	—	—	—
1850	—	X	—	—	—	—	—	—
1859	X	—	—	—	—	—	—	—
1860	—	X	—	—	—	—	—	—
1869	X	—	—	—	—	—	—	—
1870	—	X	—	—	—	—	—	—
1879	X	—	—	—	—	—	—	—
1880	—	X	X	—	—	—	—	—
1889	X	X	X	—	—	—	—	—
1899	X	—	—	—	—	—	—	—
1902	—	X	—	—	—	—	—	—
1904	X	—	—	—	—	—	—	—
1908	—	—	X	—	—	—	—	—
1909	X	X	—	—	—	—	—	—
1914	X	—	—	—	—	—	—	—
1919	X	X	—	—	—	—	—	—
1921	X	—	—	—	—	—	—	—
1923	X	—	—	—	—	—	—	—
1925	X	—	—	—	—	—	—	—
1927	X	—	—	—	—	—	—	—
1929	X	X	—	X	X	X	—	—
1931	X	—	—	—	—	—	—	—
1933	X	—	—	—	X	X	—	—
1935	X	X	—	X	X	X	X	—
1937	X	—	—	—	—	—	—	—
1939	X	X	—	X	X	X	X	—
1947	X	—	—	—	—	—	—	—
1948	—	—	—	—	X	X	X	—
1954	X	X	—	—	X	X	X	—
1958	X	X	—	—	X	X	X	—
1963	X	X	X	—	X	X	X	X
1967	X	X	X	X	X	X	X	X
1972	X	X	—	X	X	X	X	X

INTRODUCTION—Continued

prise statistics program, which relates census company-level data to the establishment data. Thus, a measurement of the integration and diversification of the American enterprise system becomes available. Also, through the enterprise statistics program, it has become possible to link census establishment-based data on a modified basis to other statistical systems such as the Internal Revenue Service's "Statistics of Income" for corporations.

Legal Provisions.—Title 13 of the United States Code specifies the frequency of the censuses, the kinds of activities to be covered, the obligation to report, the penalties for failure to report, and the confidentiality of returns. It also authorizes

the use of sampling techniques in conducting censuses. As amended in 1964, Title 13 requires the economic censuses to be taken at 5-year intervals, covering the years ending in "2" and "7." The next censuses will cover the year 1977. The pertinent portions of Title 13 are quoted in appendix D.

2. CHARACTERISTICS OF THE INDUSTRIAL SECTOR

General.—In terms of the major industry divisions established in the national accounts, manufacturing is the largest sector of the economy. In 1972, manufacturing plants employed 19 million persons, 22 percent of the civilian labor force of 86.5 million. Over the past 20 years, as shown in table B, national

TABLE B. National Income by Industry Division for Selected Years

Industry	1929	1933	1939	1947	1954	1958	1963	1967	1972
Billions of dollars									
All industry divisions, total	86.8	40.3	72.6	199.0	303.1	367.8	481.9	653.3	941.8
Manufacturing	21.9	7.7	18.1	59.5	94.6	107.8	143.8	195.2	252.6
Nondurable goods	10.6	4.9	9.1	28.0	39.7	45.7	57.5	75.5	99.9
Durable goods	11.3	2.8	9.0	31.5	54.9	62.0	86.3	119.7	152.7
Wholesale and retail trade	13.5	5.6	12.6	37.6	48.3	58.2	73.3	97.5	139.7
Government and government enterprises	5.1	5.3	8.5	18.7	36.1	46.9	64.8	93.8	149.5
Services	8.8	5.1	7.6	18.1	27.8	38.4	54.1	78.5	120.1
Finance, insurance, and real estate	12.8	5.9	8.0	16.1	32.0	40.9	53.6	71.9	107.9
Contract construction	3.8	.8	2.3	8.4	15.6	19.0	24.1	33.2	51.7
Transportation	6.6	3.0	4.6	11.6	14.6	16.6	20.0	25.2	36.0
Agriculture, forestry, and fisheries	8.5	3.9	6.0	18.9	16.4	18.0	18.6	21.6	30.4
Electric, gas, and sanitary services	1.6	1.3	1.8	2.8	5.9	7.4	10.3	12.6	18.2
Communication	1.1	.8	1.1	2.3	5.1	7.0	9.8	13.1	20.0
Mining	2.1	.6	1.6	4.2	5.3	5.7	6.0	6.3	8.2
Rest of the world .....	.8	.3	.3	.8	1.6	2.0	3.4	4.5	7.5
Percent of total									
All industry divisions, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing	25.2	19.1	24.9	29.8	31.2	29.2	29.8	29.9	26.8
Nondurable goods	12.2	12.2	12.5	14.0	13.0	12.4	12.0	11.6	10.6
Durable goods	13.0	6.9	12.4	15.8	18.1	16.8	17.8	18.3	16.2
Wholesale and retail trade	15.5	13.9	17.3	18.8	15.9	15.8	15.2	14.9	14.8
Government and government enterprises	5.8	13.2	11.7	9.3	11.9	12.7	13.4	14.4	15.9
Services	10.1	12.7	10.4	9.0	9.1	10.4	11.2	12.0	12.8
Finance, insurance, and real estate	14.7	14.6	11.0	8.1	10.5	11.1	11.0	11.0	11.5
Contract construction	4.4	2.0	3.2	4.2	5.1	5.1	5.0	5.1	5.5
Transportation	7.6	7.4	6.3	5.8	4.8	4.5	4.2	3.9	3.8
Agriculture, forestry, and fisheries	9.7	9.7	8.3	9.4	5.4	4.8	3.8	3.3	3.2
Electric, gas, and sanitary services	1.8	3.2	2.4	1.4	1.9	2.0	2.1	1.9	1.9
Communication	1.2	2.0	1.4	1.1	1.6	1.9	2.0	2.0	2.1
Mining	2.4	1.5	2.2	2.1	1.7	1.5	1.2	1.0	.9
Rest of the world .....	.9	.7	.4	.4	.5	.5	.6	.7	.8

Source: Survey of Current Business, August 1965, pp. 42-45; July 1966, p. 15; July 1970, p. 21; and July 1973 p. 22.

INTRODUCTION—Continued

income originating in manufacturing averages almost 30 percent of the total. In 1972, government and government enterprises surpassed wholesale and retail trade which historically was the next largest sector.

Cyclical Changes.—The need for frequent and comprehensive statistics on manufacturing derives as much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole, as can be seen in the movement from 1929 to 1933 to 1939 in table C.

Within manufacturing, durable goods industries accounted for about 60 percent of all manufactures during recent periods. This category tends to be more volatile than nondurable goods, generally accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion. In the early thirties, for example, as shown in table C, durable goods manufacturing amounted to only about one-third of the total.

Geographic Distribution.—In the early and middle 19th century, manufacturing activity was concentrated in the

TABLE C. Total National Income and Amounts Originating in Durable and Nondurable Manufactures for Selected Years

Year	National income (bil. dol.)	National income originating in manufacturing			Manufacturing as a percent of national income	Durable goods industries as a percent of total manufacturing
		Total (bil. dol.)	Nondurable goods industries (bil. dol.)	Durable goods industries (bil. dol.)		
1972	941.8	252.6	99.9	152.7	27	60
1971	859.4	226.4	91.8	134.6	26	59
1970	800.5	217.5	88.9	128.6	27	59
1969	766.0	222.3	85.8	136.4	29	61
1968	711.1	212.7	82.1	130.6	30	61
1967	653.6	195.2	75.5	119.7	30	61
1966	620.6	191.5	72.9	118.5	31	62
1965	564.3	172.6	66.5	106.1	31	61
1964	518.1	155.6	61.9	93.6	30	60
1963	481.9	143.8	57.5	86.3	30	60
1962	457.7	137.0	55.6	81.4	30	59
1961	427.3	125.1	52.8	72.3	29	58
1960	414.5	125.8	52.2	73.6	30	59
1959	400.0	124.0	51.1	72.9	31	59
1958	367.8	107.7	45.7	62.0	29	58
1957	366.1	116.3	46.4	69.9	32	60
1956	350.8	113.1	46.2	66.8	32	59
1955	331.0	107.9	44.0	63.8	33	59
1954	303.1	94.6	39.7	54.9	31	58
1953	304.7	100.4	40.3	60.1	33	60
1952	291.4	92.5	38.2	54.3	32	59
1951	278.0	90.2	38.4	51.8	32	57
1950	241.1	76.2	33.3	42.9	32	56
1949	217.5	64.8	30.5	34.2	30	53
1948	224.2	68.7	32.9	35.8	31	52
1947	199.0	59.5	28.0	31.5	30	53
1943	170.3	58.3	19.6	38.6	34	66
1939	72.6	18.1	9.1	9.0	25	50
1935	57.2	13.4	7.3	6.1	23	46
1933	40.3	7.7	4.9	2.8	19	36
1932	42.8	7.3	5.2	2.1	17	29
1929	86.8	21.9	10.6	11.3	25	52

Source: Survey of Current Business, August 1965, pp. 42-45; July 1966, p. 15; July 1968, p. 23; August 1970, p. 21; July 1972, p. 20; and July 1973, p. 22.

Northeast. Over the past hundred and twenty years, as shown in table D, there has been a steady decline in the proportion accounted for by the Northeastern States. Industry expanded into the North Central Region in the latter part of the 19th century and, in more recent years, displayed a marked growth in the South and West.

Size Distribution.—Manufacturing activity tends to be characterized by relative large-scale operations. While there are many small manufacturing plants, they account for a relatively small part of the total output of goods. As shown in table E, over half of the plants covered in the 1972 census had less than 10 employees and they accounted for less than 3 percent of the total value added by manufacture.

3. ROLE OF THE CENSUS OF MANUFACTURES

In the farm-oriented economy of the early 19th century, industrial statistics played a relatively small role in government policy formation. A few series on physical output of commodities originated either from private sources (flour, iron, and steel, etc.) or as a byproduct of tax collection or other government functions (liquors, beer, tobacco products, etc.). Other than these, the only sources of information on the manufacturing sector were the censuses of manufactures, then taken at 10-year intervals. Today, the need for industrial statistics has greatly increased, and the user finds a vast array of detailed information covering virtually every measurable aspect of industrial activity including employment, payrolls, hours worked, production, prices, inventories, orders, investment in structures, machinery, and equipment, and consumption of raw materials, fuels, and water. Many of these statistics are available at frequent intervals and on a timely basis. Sophisticated indicators of economic progress have also been developed such as price and production indexes, gross national product, and national income, published at monthly or quarterly intervals.

In this setting, the census of manufactures still plays an essential role since no other source provides such comprehensive and detailed information on the structure of the industrial sector.

The census obtains, for every manufacturing plant with one employee or more, data on its input of labor, materials, and capital, its output of products and services, its location, and the legal form of organization of the owning firm.² These facts are obtained in sufficient detail to permit classification by industry, by size of plant, by homogeneity of output and, where desirable, by type of operation, extent of vertical integration, kind of equipment, relationship to other plants of the same firm, and other characteristics.

² For 1967 and 1972, some of this information for 120,000 small companies was not obtained directly but estimated from administrative records. See the discussion of coverage of establishments in sections 4 and 6 below.

TABLE D. Employment in Manufacturing Establishments, by Region: 1849 to 1972

Year	United States	Northeast	North Central	South	West
Number of employees (thousands)					
1972	19,029	5,306	6,135	5,221	2,367
1967	18,492	5,573	6,059	4,553	2,305
1963	16,235	5,190	5,239	3,780	2,025
1958	15,423	5,242	5,017	3,382	1,779
1947	14,294	5,429	5,109	2,710	1,054
1939	9,527	3,879	3,184	1,852	612
1929	10,198	4,246	3,516	1,758	675
1899	5,077	2,629	1,474	793	181
1849	957	696	110	146	4
Percent of U.S. total					
1972	100	28	32	27	13
1967	100	30	33	25	12
1963	100	32	32	23	13
1958	100	34	33	22	12
1947	100	38	36	19	7
1939	100	41	34	20	6
1929	100	42	35	17	7
1899	100	52	29	16	4
1849	100	73	12	15	—

Note: Detail may not add to totals because of independent rounding. 1849 data include hand and neighborhood industries, which were excluded from the censuses of manufactures beginning with 1899. Source: Census of manufactures. — Represents zero.

TABLE E. Number of Manufacturing Establishments and Value Added by Manufacture, by Size Class of Establishment: 1972

(Cumulative percentage)		
Size class	Number of establishments	Value added by manufacture
All establishments, total	100.0	100.0
1 to 4 employees	35.9	1.1
1 to 9 employees	50.8	2.5
1 to 19 employees	64.8	5.4
1 to 49 employees	77.6	12.6
1 to 99 employees	89.0	20.9
1 to 249 employees	95.6	36.9
1 to 499 employees	98.2	51.4
1 to 999 employees	99.3	65.1
1 to 2,499 employees	99.8	79.3

General statistics (that is, total employment, payroll, production-worker employment, man-hours, wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) from the census of manufactures are published by industry, by area, by employment size of establishment, by degree of product specialization within plant, and by type of ownership. Information is supplied on the detailed industrial characteristics of each State and large standard metropolitan statistical area (SMSA); and overall measures of manufacturing activity are shown at the county and individual-city level provided there are at least 450 employees in manufacturing and the information can be published without compromising the confidentiality of individual company data. Since a significant amount of industry detail cannot be published for the 3,140 counties and county equivalents in the United States, a special computer tape on "Location of Manufacturing Plants" is available for data users. This tape includes the number of establishments in each of the 450 industries by county or county equivalent area, by employment size. Information such as this constitutes a periodic inventory of the geographic dispersion of the Nation's manufacturing economy that provides a benchmark for measuring the change in its structure.

The census of manufactures also provides benchmarks from which more frequent surveys can be developed on a sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an Annual Survey of Manufactures (ASM) on a sample basis during the intervening years. After each 5-year census, a new sample is drawn utilizing the characteristics recorded for each company in the census. The sample, constituting about one-fifth of the establishments but with complete coverage of all large ones, provides an annual updating of the census of manufactures in terms of broad measures of economic activity. It provides the same basic measures of economic activity of the plant such as employment, payrolls, value of shipments, value added by manufacture, as does the census of manufactures, but contains less detailed information on products, materials consumption, and equipment.³

The census of manufactures not only is a benchmark for many of the surveys conducted by the Census Bureau itself on a more frequent basis but also is the means of updating other indicators of economic activity. It provides very important information on the manufacturing segment used in the national income accounts. Census data on materials consumed and product output are basic to the manufactures sector of the

input-output studies of the Bureau of Economic Analysis. The information derived from the census of manufactures is also used to develop indexes of industrial production for census years. These indexes are used as benchmarks for the monthly Federal Reserve Board Index of Industrial Production—a key indicator of current economic activity. The census and ASM also provide benchmarks for hundreds of monthly and quarterly surveys of commodity output conducted by the Census Bureau, other government agencies, and by manufacturers' associations.

4. INDUSTRY AND PRODUCT CLASSIFICATION

Structure of the Standard Industrial Classification.—The basic classification system employed in the economic censuses is the Standard Industrial Classification (SIC). The SIC was developed for use in the classification of establishments (see "Establishment Basis of Reporting," page 9) by type of activity in which engaged. It covers the entire field of economic activities, subdivided as follows:

Industrial division	Title	Major groups
A	Agriculture, forestry, and fisheries	01-09
B	Mining	10-14
C	Contract construction	15-17
D	Manufacturing	20-39
E	Transportation, communication, electric, gas, and sanitary services	40-49
F	Wholesale and retail trade	50-59
G	Finance, insurance, and real estate	60-67
H	Services	70-89
I	Public administration	91-97
J	Nonclassifiable establishments	99

Below the major group level, the SIC provides for 3-digit groups and finally for 4-digit industries. To illustrate—

Division D.—Manufacturing

Major Group 20	Food and kindred products
Industry group 202	Dairy products
Industry 2023	Condensed and evaporated milk

The SIC is the responsibility of an intragovernmental technical committee headed by the Office of Management and Budget. The system is used by all Federal Government agencies engaged in the classification of establishments. To

³ Since the ASM is based on a sample, the cross-classifications by industry and by area are fewer than in the census of manufactures. At the U.S. level, statistics are published in the annual survey for practically all of the 450 industries. However, at the State and SMSA levels, statistics are published only for 3-digit and 2-digit industry groupings, respectively. At the county level, information is published for about 10 percent of the 3,140 counties and equivalent areas. These 300-odd counties are the larger ones in terms of manufacturing activity and account for about 80 percent of total manufacturing employment. Data for cities are shown for those cities having over 20,000 manufacturing employees.

facilitate comparison with Federal statistics and the filing of reports, many State and local governments and business concerns organize their own records along SIC lines.

The first SIC manual was issued in 1939. For the manufacturing sector, the nucleus of the manual was the census of manufactures industry classifications developed over a period of many years. A revised manual was issued for the manufacturing industries in 1945 which, with minor modifications, was used in the 1947 census of manufactures. For the 1954 census, the classification structure used in 1947 was again employed, with minor modifications. In 1957, the SIC system was extensively revised for manufacturing industries and the historical comparability of some data was seriously affected. This revision and its effects on census series are described in the introduction and appendixes to the 1958 census volumes. Minor revisions of the SIC between 1958 and 1967 introduced some 4-digit industry changes but none of them crossed 3-digit group lines. Another extensive revision of the SIC was completed in 1972 which also affected the comparability of industry data. The discussion of the revisions and the impact on comparability appears in appendix B, as well as in parts of each individual industry chapter.

Structure of the SIC Manufacturing Division.—For the manufacturing division, the 20 2-digit SIC Major Groups (20 to 39) are subdivided into 143 3-digit SIC Groups (201 to 399) and into 451 4-digit industries (2011 to 3999). While the SIC contains 451 industries, the Bureau of the Census has combined one small industry with another for a total of 450 industries.

Most of the 451 manufacturing industries are defined in terms of specific groups of related products. Usually the products are made of similar materials and by similar processes and are competitive. In determining the boundaries of product-defined industries,⁴ it is essential that each industry comprise a group of establishments whose output of products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries. Some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. (Example: Industry 3361, Aluminum Foundries (castings). A small number of industries are basically defined by material used as well as final product of the plant. (Example: Industry 2521, Wood Office Furniture).

There are wide differences among industries in the extent to which the establishments classified in the industry (a) account for the total production of commodities "primary" to the industry, (b) produce products or services "belonging" to other industries (that is, secondary products), and (c) use similar materials or processes. While these variations are frequently construed to be shortcomings, the fact is that the limitations observed in the classification structure arise from the inherent complexity of our economic system and from the disparity in the methods of production among the individual producing units of which it is comprised. The data collected in the census of manufactures provide a statistical basis for a critical evaluation of the classification system; that is, for assessing the boundaries between industries, the growth and decline of industries, and the impact of technological change on the classification of industries.⁵

No general-purpose system of industrial classification can hope to satisfy all users of census data. Some business users will be interested primarily in data relating only to themselves and to their competitors in the production of a narrow range of products; others will wish data relating to all products, including complementary and substitutable products, competing in a particular market; others may wish data relating to the consumers of one or more types of materials. Some may be interested only in the data for plants producing a specific product; others only for those plants producing a "full line" of products. The large number of SIC industries provides the analyst with the "building blocks" for obtaining useful approximations, if not "clean" data, relevant to many of these problems. But, at best, a single general-purpose system of classification can only partially satisfy these diverse needs; a point is soon reached beyond which the adaptation of a system to serve one use somewhat better will reduce its ability, often disproportionately, to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries into broad groupings along lines different from those in the SIC 2- and 3-digit categories. The Federal Reserve Board for many years has made combinations to stress such criteria as durable, nondurable, consumers, producers, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. By and large, the 4-digit industries are susceptible to allocation to such categories, while the 2-digit SIC groups are not.

Subindustries.—To increase the usefulness or improve the editing of the data, the Census Bureau frequently has further classified the basic 4-digit SIC industries into "subindustries." This device is employed where there are wide disparities in the

⁴ Frequently, business analysts and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers or they may be individually grouped with other products of similar materials such as converted paper products, wood products, glass products, etc.

⁵ See "Industry Classification and Sector Measures of Industrial Production" by James W. McKie, Bureau of the Census Working Paper No. 20, 1965, and "Historical Comparability of Census of Manufactures Industries, 1929-1958" by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

operating ratios of the plants in the industry because of differences among plants in the degree of vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. This technique was used for about 61 manufacturing industries for editing purposes and many were regarded as significant enough to be used for publication: For example, the bakery industry (SIC 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multioutlet bakeries, and many apparel industries (Group 23) are subclassified into manufactures, contractors, and jobbers.

To provide a further measurement of variations within 4-digit industries, the Bureau also subclassifies establishments by the degree to which they produce the primary products or specific classes of primary products of the 4-digit industry. This is in effect a subindustry classification based on degree of product specialization which is published in table 5A of the industry chapters.

Definition of Manufacturing.—As defined in the SIC, manufacturing is the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. However, some manufacturers (for example, baking, milk bottling, etc.) sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some activities of a service nature (enameling, binding, platemaking, etc.) are included in manufacturing when they are performed primarily for trade; but they are considered nonmanufacturing when they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which perform only the entrepreneurial functions of buying the materials and designing and marketing the product, but have the actual production done on contract (for example, apparel jobbers).

Auxiliary Units.—In addition to the production of goods and manufacturing services, manufacturing plants engaged in related and diverse supporting activities. These activities encompass the acquisition of materials to be processed, their movement into the manufacturing facility, their storage at the manufacturing site, the operation and maintenance of plant and equipment, the design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included are a host of subsidiary

activities associated with the operation of the establishment as a manufacturing entity (for example, management and policy formation, product and market orientation, engineering and quality control, recordkeeping and accounting, physical security of plant and equipment, and the like). Such subsidiary activities may be performed by personnel located at the manufacturing facility or at an auxiliary unit serving one or more manufacturing locations of the same company. Where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for central administrative offices and auxiliaries. (See the description of the questionnaire used for these establishments, Form NC-X6, in section 7, below.)

Marginal Activities.—The following types of activities, while having some of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, egg hatching, cotton ginning, and similar activities closely associated with agriculture are excluded.

(b) Mineral preparation such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census unless a separate report for the mining activity was filed; for example, stone and clay mining at cement, lime, and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

In the 1972 census, no attempt was made to measure the extent of manufacturing at locations which are not primarily manufacturing plants, such as retail establishments which sell most of their products on the premises directly to household consumers (retail bakeries,⁶ ice cream stores, etc.), or manufacturing by construction contractors at the site (for example, production of paving mixtures).

⁶ Separate data for retail bakeries with baking on the premises were included in the retail census publications, however.

Conversely, it is not unusual for manufacturing establishments to engage also in nonmanufacturing activities such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the classification of that establishment into the appropriate major economic sector is more difficult.

In the 1972 economic censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on approximation, was considered preferable to reported dollar volume of receipts from each type of activity in determining the primary industry, since manufacturing requires considerably more man-hours, salaries and wages, and capital inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction, or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable input per dollar of receipts.

Establishment Basis of Reporting.—The SIC is an establishment classification system, and the census of manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a report for each location; also, a company engaged in distinctly different lines of activity at one location is required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not significant enough to warrant the filing of separate reports, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in each of two or more distinct lines of manufacturing as defined in the SIC. Frequently, companies organize their operations and their records separately where diverse activities are large (for example, with more than 100 employees in each line of activity) and choose to report them as separate plants. When they do not do so on their own initiative, the Census Bureau requests separate reports. For the most part, companies have

responded favorably, particularly for very large operations where failure to "split out" the different activities would significantly distort the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines by many of the same employees and could not be distinguished sufficiently in company records to provide establishment-type reporting.

SIC industry definition takes account of special situations where otherwise separately classifiable activities are frequently combined at one location. For example, in the lumber area the definition of industry 2421, Sawmills and Planing Mills, General, recognizes the situation that sawmills may include logging operations. Similarly, in the pulp and paper area, pulpmills operated in combination with papermills are included in one report.

Coverage of Establishments.—The censuses of manufactures for 1947 to date have included establishments with one employee or more. Beginning with the 1967 census, reports were not obtained directly from all such establishments. Approximately 120,000 small single-unit manufacturing firms⁷ identified as having less than 10 employees were excused from filing reports. Under special arrangements which safeguarded the confidentiality of both tax and census records, limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the Internal Revenue Service (IRS) were made available to the Census Bureau for use in the 1967 and 1972 economic censuses. Estimates for data other than payrolls and sales for these small establishments were constructed from historical industry ratios. The effect on industry aggregates is slight in most industries; for manufacturing as a whole, they account for only 1.2 percent of the value added. Detailed product and materials data for these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a "not specified by kind" category.

In the censuses of 1921 through 1939, establishments with less than \$5,000 value of products were excluded. For 1899 to 1919, the limit was \$500. The change in the minimum size limit to an employment basis in 1947 did not appreciably affect the overall comparability of earlier census figures, except for the number of establishments.⁸

A sample survey of manufacturing plants with no paid employees was conducted in conjunction with the 1958 census. While there were nearly 52,000 establishments in this category in that year, they accounted for only about one-quarter of 1 percent of the total value of shipments of all manufacturing industries. The proportion was higher for certain industry groups such as lumber and wood products and printing and

⁷ The characteristics of these firms are discussed below in section 15.

⁸ This point is discussed at greater length in the Introduction to the 1947 volumes.

publishing. Tabulation of IRS data for 1972 indicates that there were 104,000 tax returns completed as manufacturing that had no payrolls under SSA standards. These accounted for a little over one-quarter of 1 percent of the total value of shipments for all manufacturing industries.

As indicated above, report forms were not mailed to 120,000 very small establishments. These establishments were assigned the industry classifications to which they had been coded in the 1967⁹ Census of Manufactures if they had been in business for that year, or if they had begun in business after 1967 they were coded on the basis of brief descriptions of the general activity of the establishment as reported to the Social Security Administration. Where the description is incomplete or there are relatively fine lines of demarcation between industries or between manufacturing and nonmanufacturing activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the total establishment count should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 or more employees are far more reliable than the total number of establishments.

Primary and Secondary Products.—As applied in the economic censuses, the SIC coding system operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are 20 very broad 2-digit groups, 143 3-digit groups, and 451 4-digit industries. In addition, the Census Bureau has developed a product coding system based on the SIC, which contains 1,293 5-digit product classes and approximately 10,500 individual 7-digit products. (See "The Classification of Products and Materials" below.) The 7-digit products and 5-digit product classes are considered the primary products of the industry with the first four digits the same as the product code. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values for 7-digit product codes to their 4-digit industry and the selection of the largest such value as the establishment's industry classification. However as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, pay-

rolls, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for an industry (tables 1 to 4 of the industry chapters in Volume II) reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. The product statistics in tables 5A and 6B of the industry chapters represent the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the industry statistics in the industry chapters, especially the industry total value of shipments (tables 1 to 4), to the product statistics (table 6), the composition of the industry's output as shown in tables 5B and 5C should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios which are computed from tables 5B and 5C. The first of the ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

Degrees of Integration.—In many industries, establishments making products falling into the same industry category use a wide variety of processes and materials to produce them. Also, within the same industry classification based on end products, those establishments may be included which are vertically integrated and those which put only the finishing touches on an already highly fabricated purchased item. For example, in the refrigeration industry, there are instances of almost complete process integration in which the production of the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly, are all carried on at one plant. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used should be taken into account when relating the general items (employment, payrolls, value added, etc.) to the product and materials data. For those industries where the integrated type of operations is of consequence, that fact is pointed out in the explanatory text for the industry.

⁹ Establishments which were in the 1967 Administrative Record File would have been assigned industry codes from the 1963 Census of Manufactures.

Industry Code Resistance.—The production of many establishments is so evenly divided among two or more industry-determining product groups that the predominant groups (which can represent less than half of the total value if there are three or more groups) change from year to year. In the ASM, these plants are prevented from shifting back and forth among industries due to minor shifts in product mix, by the application of a "resistance formula" in assigning industry classifications.

A resistance formula of the ASM type was first used in the 1963 Census of Manufactures and again applied in the 1967 census. In the 1972 census, the formula was applied only to establishments included in the 1971 ASM sample panel with certainty (that is, included with a probability of "1"). In general, certainty cases included all establishments of companies with at least one manufacturing plant with 250 employees or more.

The formula gives approximately equal weight to the need for maintaining continuity in the establishment composition of an industry, thus improving the measurement of change and the need for reflecting the industry's exact status at a point in time.

In the 1972 census, the industry classification of certainty establishments was allowed to change from that assigned in 1971 under one of the following conditions:

- (a) The value of the 1972 primary products constituted 60 percent or more of its total value of product shipments, or
- (b) The value of the 1972 primary products, while less than 60 percent, was at least twice the value of products which had been primary in 1971.
- (c) The value of 1972 primary products, while not meeting either of the two prior conditions, exceeded the value of the 1970 primary industry's products in both 1972 and 1971 by at least 20 percent.

The Classification of Products and Materials.—In census industrial statistics, a commodity classification system based on the SIC is employed. The code numbers used in this system relate the commodity to the industry in which it is produced. For example, the 7-digit product code number 2023212 refers to canned evaporated milk. The first five digits of this code number, 20232, refer to the "product class" canned milk, and the first four digits, 2023, refer to the industry in which these products are made (the condensed and evaporated milk industry). The system is also applied to the coding of materials insofar as the first four digits are concerned; for example, the code number 024111 refers to whole milk used as a material, and the first four digits of this code number 0241, refer to the agricultural industry, dairy farms, where this product originates.

This SIC-based system is simpler than other systems for the coding of industrial products and materials used, since there is a direct numerical relationship between commodities and industries. Complications occur in the few SIC industries defined in terms of processes or equipment used as well as products made. As an example, women's sweaters are produced in knitting mills (industry 2253) and also in cut-and-sew shops (industry 2339). To retain the industry-of-origin concept, therefore, it is necessary to assign different product code numbers to women's sweaters, depending on where they are made.

The SIC-based commodity classification is used in the Census Bureau's entire industrial statistics program, including monthly, quarterly, and annual surveys, and also in the census of wholesale trade. The Bureau also publishes data on imports and exports in terms of SIC-based categories as well as the traditional Schedule B and TSUSA systems.¹⁰

5. GEOGRAPHIC CLASSIFICATION

Census Divisions and Regions.—In order to present census data at a level intermediate between the U.S. total and those for the individual 50 States and the District of Columbia, the Census Bureau has used regional groupings for over a century. Since the 1909 Census of Manufactures, the present nine geographic divisions have been used. Beginning with the 1939 census, the nine divisions were also classified into four geographic regions: Northeast, South, North Central, and West.

Not only are these groupings convenient for the summary presentation of census data below the U.S. level, but they are also essential to presenting a maximum of geographic information where the individual State data cannot be shown without disclosing figures for individual companies. (See section 22, "Confidentiality".) The relative importance of manufacturing among the regions, divisions, and States is shown in table F.

Standard Metropolitan Statistical Areas.—In addition to the data for the legally constituted geographic units (States, counties, and cities), all manufacturing totals are shown for approximately 263 standard metropolitan statistical areas (SMSA).¹¹ In the 1972 tables, detail for 2-, 3-, and 4-digit industries is shown for any SMSA when it would not disclose data for individual companies and the industry had at least 250 manufacturing employees. This is the same procedure as that used in the 1967 census. Prior to 1967, detail had not been shown for SMSA's with under 40,000 total manufacturing employment, and only industry group figures were

¹⁰Schedule B is the U.S. export classification while TSUSA is applied to imports.

¹¹See appendix F for a description of each SMSA.

INTRODUCTION—Continued

TABLE F. Value Added by Manufacture for Regions, Divisions, and States: 1972

Region, division, and State	Value added by manufacture (mil. dol.)	Percent of U.S. total	Region, division, and State	Value added by manufacture (mil. dol.)	Percent of U.S. total
United States, total	353,994.0	100.0	South Region—Con. South Atlantic Div.—Con.		
Northeast Region	92,839.1	26.2	Virginia	6,177.5	1.7
New England Division	22,508.2	6.4	West Virginia	2,646.7	.7
Maine	1,383.4	.4	North Carolina	11,014.5	3.1
New Hampshire	1,278.6	.4	South Carolina	4,965.6	1.4
Vermont	576.0	.2	Georgia	7,385.8	2.1
Massachusetts	10,677.5	3.0	Florida	5,786.8	1.6
Rhode Island	1,764.4	.5	East South Central Division	21,233.5	6.0
Connecticut	6,828.3	1.9	Kentucky	5,682.1	1.6
Middle Atlantic Division	70,330.9	19.9	Tennessee	7,662.0	2.2
New York	30,403.5	8.6	Alabama	5,064.8	1.4
New Jersey	16,408.9	4.6	Mississippi	2,824.7	.8
Pennsylvania	23,518.5	6.6	West South Central Division	24,602.8	7.0
North Central Region	123,535.0	34.9	Arkansas	2,799.8	.8
East North Central Division	99,950.5	28.2	Louisiana	4,273.4	1.2
Ohio	27,171.0	7.7	Oklahoma	2,270.1	.7
Indiana	14,111.6	4.0	Texas	15,259.4	4.3
Illinois	25,848.9	7.3	West Region	47,431.8	13.4
Michigan	23,375.7	6.6	Mountain Division	7,445.5	2.1
Wisconsin	9,443.3	2.7	Montana	462.5	.1
West North Central Division	23,584.5	6.7	Idaho	820.8	.2
Minnesota	5,523.8	1.6	Wyoming	143.9	—
Iowa	4,757.7	1.3	Colorado	2,504.3	.7
Missouri	8,169.0	2.3	New Mexico	358.0	.1
North Dakota	200.7	.1	Arizona	1,879.6	.5
South Dakota	284.5	.1	Utah	1,068.7	.3
Nebraska	1,733.4	.5	Nevada	207.7	.1
Kansas	2,915.4	.8	Pacific Division	39,986.3	11.3
South Region	90,188.1	25.5	Washington	4,721.4	1.3
South Atlantic Division	44,351.8	12.5	Oregon	3,489.9	1.0
Delaware	1,291.9	.4	California	31,194.6	8.8
Maryland	4,706.9	1.3	Alaska	170.4	.1
District of Columbia	376.0	.1	Hawaii	410.0	.1

—Represents zero.

shown for SMSA's with 40,000 to 190,000 employees. Between 1967 and 1972, a significant number of SMSA's were redefined in content or became new SMSA's. These changes are discussed in appendix E.

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one whole county or more. An area may contain not only highly industrialized

counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas for general-purpose use in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining standard metropolitan statistical areas, but on a city and town basis because towns are regarded as the significant unit in this region of the country.

TABLE G. The 50 Largest SMSA's Ranked by Value Added by Manufacture: 1972, 1967 and 1963

Standard metropolitan statistical area	Number of employees (thousands)	Value added by manufacture (mil. dol.)	1972 rank	1967 rank	1963 rank	Standard metropolitan statistical area	Number of employees (thousands)	Value added by manufacture (mil. dol.)	1972 rank	1967 rank	1963 rank
Chicago, IL	909.6	1,757.3	1	2	2	Atlanta, GA	132.4	2,472.3	26	29	30
Los Angeles-Long Beach, CA	778.9	15,234.9	2	3	3	Seattle-Everett, WA	108.6	2,234.7	27	22	21
New York, NY-NJ*	949.2	15,120.8	3	1	1	Dayton, OH	118.8	2,152.9	28	24	26
Detroit, MI*	551.6	11,694.3	4	4	4	Gary-Hammond-East					
Philadelphia, PA-NJ	495.7	9,189.9	5	5	5	Chicago, IN	99.4	2,159.0	29	28	20
						Columbus, OH	102.4	1,989.2	30	39	34
Newark, NJ	271.8	5,608.6	6	9	8	Providence-Warwick,					
Cleveland, OH	268.9	5,220.9	7	6	6	Pawtucket-RI-MA*	131.9	1,959.9	31	32	32
St. Louis, MO-IL	256.2	5,161.1	8	7	7	Jersey City, NJ	95.3	1,899.2	32	30	24
Boston, MA*	266.5	4,918.9	9	8	9	Toledo, OH-MI	91.2	1,878.9	33	36	37
Rochester, NY	142.2	4,390.6	10	13	19	Denver-Boulder, CO	95.5	1,849.8	34	41	36
						Allentown-Bethlehem-Easton, PA-NJ	110.4	1,805.6	35	43	40
Houston, TX	162.7	4,179.4	11	14	18	Youngstown-Warren, OH ..	86.6	1,749.5	36	35	38
Pittsburgh, PA	262.8	4,163.9	12	10	10						
Dallas, Fort Worth, TX* ..	230.0	4,075.7	13	27	28	Akron, OH	94.4	1,686.2	37	34	33
San Francisco-Oakland, CA	184.8	3,807.9	14	11	11	Portland, OR-WA	86.4	1,596.9	38	42	44
Minneapolis-St. Paul, MN-WI	199.0	3,734.8	15	16	17	Grand Rapids, MI	74.9	1,515.4	39	44	42
						Hartford, CT	86.4	1,395.5	40	33	35
Milwaukee, WI	200.0	3,700.0	16	12	13	Phoenix, AZ	71.9	1,379.0	41	—	—
Cincinnati, OH-KY-IN	157.6	3,561.2	17	17	15	Memphis, IN-AR-MS	64.2	1,352.4	42	—	—
Baltimore, MD	180.1	3,476.2	18	15	12	Albany-Schenectady-Troy, NY	66.9	1,322.0	43	49	46
Buffalo, NY	151.7	3,146.3	19	18	14	Miami, FL	86.0	1,219.0	44	—	—
Louisville, KY-IN	113.4	3,022.8	20	20	22	Syracuse, NY	60.5	1,205.3	45	46	43
Kansas City, MO-KS	118.8	2,902.4	21	21	23	Paterson-Clifton-Passaic, NJ	75.5	1,179.4	46	19	16
San Jose, CA	134.4	2,873.1	22	25	29	Springfield-Chicopee-Holyoke, CT	62.1	1,157.7	47	45	47
Anaheim-Santa Ana-Garden Grove, CA	131.0	2,734.4	23	23	27	Canton, OH	57.6	1,151.6	48	48	48
Greensboro-Winston-Salem-High Point, NC ...	138.0	2,593.4	24	31	—	Bridgeport, CT	63.7	1,137.6	49	40	41
Indianapolis, IN	122.5	2,525.3	25	26	25	Birmingham, AL	68.9	1,123.8	50	47	39

Note: The Flint, Mich., SMSA falls within the top 50 SMSA's but is excluded from this table to avoid disclosing figures for individual companies.

— Represents zero. *The definition of this SMSA changed for 1972. See appendix F for a description of each SMSA and changes in content.

The requirement that each SMSA consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined

would be limited by the fact that many types of economic and social data are available only on a county basis.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include one or two additional city names.

Value added by manufacture in all SMSA's accounted for 78 percent of the U.S. total in 1972. The relative importance

of the 50 largest SMSA's in 1972 and their rankings in the 1967 and 1963 censuses are shown in table G.

Industrial Counties.—In addition to industry statistics for standard metropolitan statistical areas, table 7 of each State report, presents data by county for each industry group (2- and 3-digit) that had at least 450 manufacturing employees

and where it would not result in disclosure of figures reported by individual companies.

Cities with 450 Manufacturing Employees or More.—Summary totals and industry detail at the 2-digit level are shown for individual cities with 450 manufacturing employees or more, provided the data do not disclose information for individual companies.

II. METHODS

6. PLANNING AND PREPARATION

General.—The Census Bureau has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State government agencies, individual companies, labor unions, and research and educational organizations is solicited in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, studies of the problems encountered in the previous censuses are undertaken, and proposals to improve the methods of collection, processing, and tabulation are explored.

Mailing Lists.—Beginning with the 1954 economic censuses, the basic mailing lists have been obtained from Internal Revenue Service (IRS) and Social Security Administration (SSA) records.^{1 2} These records were also sampled to develop statistics for retail and service establishments with no employees. After the 1963 censuses, it was decided to investigate the feasibility of making greater use of the data in the IRS-SSA records. This effort led, in the 1967 censuses, to the exemption of over 2,000,000 firms from the filing requirement, including 120,000 small manufacturers. Instead, census-type statistics for this group were developed from IRS-SSA records. Well in advance of the data collection phase of the censuses, plans for using these records for small employers were developed in close cooperation with those agencies. Specific procedures for this use and for assuring confidential treatment of individual tax returns were set forth in Executive Order No. 10911, dated January 17, 1961, and Treasury Decision No. 6547 of the same date. The basic records used were business income tax returns (IRS forms 1040C, 1065, 1120, and 1120S) and payroll tax returns (IRS form 941). The information obtained from these reports was the name and address, payrolls, and gross business receipts. In addition, an SIC indus-

trial activity code was assigned by use of the permanent SSA records which indicate the industry or kind of business of each employer. Other census statistics for these small firms were imputed, using industry average ratios to payrolls and sales.^{1 3}

Since the 1967 procedure was successful, it was repeated in the 1972 economic censuses. In 1972, there was a concerted effort by the Census Bureau to improve the industry coding of the administrative record by mailing a nature-of-business inquiry to establishments whose industry codes could have been affected by the 1972 revision to the SIC. (A sample classification card is reproduced in appendix C.)

Planning the Content of Questionnaires.—As in previous censuses, the content of the 1972 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the manufacturers who supply the basic data and those who use the resulting statistics. Those consulted included government agencies, individual firms, labor unions, the American Statistical Association, the American Economic Association, the American Marketing Association, the National Association of Manufacturers, and all national manufacturers' associations covering specific industries.

A special effort was made to obtain the advice of individual manufacturers and their trade associations as to the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1972 product sections were circulated among 800 trade associations and about 4,000 manufacturing companies, both large and small. These inquiries followed the pattern of the 1967 census inquiries, with the introduction of new product detail reflecting suggestions received by the Census Bureau after the 1967 canvass. Small items (those valued at \$5 million or less) were not retained in the list unless they were needed to simplify the classification of other products or were of strategic importance. The manufacturers and others consulted in this clearance procedure were requested to comment particularly as to whether

^{1 2} The 1947 Census of Manufactures list was also obtained from the SSA.

^{1 3} As discussed elsewhere in this introduction, the amount of imputation introduced by this procedure was only about 1 percent of the overall totals.

the proposed detail was readily reportable from business records, and whether it represented the most appropriate set of items for the industry. A restriction was placed on proposals for additional detail; it was stipulated that the 1972 value of any new product category should exceed \$20 million.

The thousands of comments and suggestions received in this clearance procedure were analyzed by the census staff. Finally, a detailed account of the review procedure and the decisions reached was forwarded to the Office of Statistical Standards, Office of Management and Budget, along with the Census Bureau's recommendations for the content of the product sections.

The final review of the content was performed by the Office of Statistical Standards with the assistance of the Advisory Council on Federal Reports. The latter organization is a group of business executives representing a cross section of industries and various professions within companies such as controllers, economists, and market research directors.

7. REPORTING FORMS

A representative selection of the reporting forms used in the census is reproduced in appendix C. The uses of each of them are discussed below.

General Forms.—This group of forms was used in the economic censuses generally, either as companywide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

NC-X1A, Report of Company Organization.—This companywide report and its companion forms NC-X1B and NC-X1C were used in the prec canvass of multiunit companies conducted in 1972. A more detailed account of their use is given in section 8, "The Mailing Lists."

NC-X2, Listing of Additional Establishments.—This form was mailed to all multiestablishment companies together with the 1972 Census of Manufactures forms to obtain a list of establishments that were acquired after the NC-X1A was filed. These plants were then classified, added to form NC-X1A, and mailed report forms. Plants under construction were requested to report expenditures put in place during 1972 and the total gross book value of assets at the end of the year.

NC-X3, General Schedule.—This questionnaire was designed to obtain information from small companies for which the industry code available in the SSA records was not precise enough to indicate which one of the standard census questionnaires should be mailed. The information provided on form NC-X3 was used to classify these companies by industry and tabulate their data in the appropriate census.¹⁴

NC-X6, Central Administrative Offices or Auxiliary Establishments.—Many multiunit companies maintain separate establishments to provide centralized administrative, management, or other supporting services for other establishments of the same company, but not for the general public or other companies. These establishments were asked to complete form NC-X6. The form contained questions on approximate employment for such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmanufacturing establishments.

NC-K1, Company Summary Report.—Each multiunit company with 250 employees or more received a form NC-K1, Company Summary Report, along with the appropriate questionnaires for its establishments. The NC-K1 requested consolidated company totals for key data items, such as receipts, new capital expenditures, inventories, and fixed assets. In addition, each company was asked to distribute the 1972 employment reported on its establishment questionnaires by its IRS-SSA employer identification numbers (EI numbers) and to compare these totals to the figures reported on its Treasury Form 941 tax returns. This comparison provided assurance that all domestic establishments of each large multiunit firm and its subsidiaries would be included in the censuses. Form NC-K1 served this operational purpose and also provided essential data for the enterprise statistics program described above in section 1.

Census of Manufactures Forms.—The questionnaire reproduced in the appendix, form MC-36B, is typical of the 180 forms used for operating manufacturing establishments. Each of these forms was designed to be used for a specific group of industries. For establishments included in the Annual Survey of Manufactures sample, form MA-100 was substituted for the front sheet of form MC-36B and its companion forms, since the content was virtually the same and it was desired to maintain continuity of reporting in the ASM. Whether or not form MA-100 was used, the inquiries on the 180 forms were identical except for the detailed questions on products shipped, materials used, and miscellaneous topics such as operations performed, equipment used, and delivery of products.

Annual Survey of Manufactures Forms.—Form MA-100 is the establishment report used in the ASM since 1949 (with modifications). As mentioned above, this form was used in 1972 as the first sheet of the census of manufactures report for the establishments included in the ASM sample. The establishment's 1971 data were imprinted on the report form before mailing, thus aiding the respondent in following the instructions for the census. Item 9, "Quantity and value of products shipped and other receipts," on form MA-100 corresponds to item 18 on the census form MC-36B and its companion forms,

¹⁴ The use of Form NC-X3 is also discussed in section 8, "The Mailing Lists."

the difference being that item 18 called for more detailed information on product shipments.

Other Related Forms.—Form CB-51J, "Manufacturers' Sales Branches and Sales Offices," which is reproduced in appendix C, is typical of the several forms used for these establishments in the census of business. The forms differed only in the kinds of products sold as listed in item 12. In item 5, line b provided verification of the classification of the establishment as a sales branch or sales office. If the line-b percentage indicated that more than half of the goods sold were not manufactured by the parent company, the establishment was reclassified into one of the merchant wholesaler categories.

MC-171, Department of Defense Establishments, and MC-D4, Penal Institutions.—These forms were used to collect information on government-owned and government-operated manufacturing establishments. They were used for two types of establishments: (1) Manufacturing facilities owned and operated by the Department of Defense, and (2) prison industries (Federal, District of Columbia, and State). The data were prepared with the cooperation of the Department of Defense, the Department of Justice, and the District of Columbia and State prison systems. For Department of Defense installations, information was provided on employment, man-hours, payrolls, cost, and value of work done, by industry group and by State. For prison industries, however, only product data were requested. The data are presented in a special report included in Volume I and are not included in the totals for operating manufacturing establishments.

8. THE MAILING LISTS

General.—As discussed in section 6 above, the basic lists for 1972 were obtained from IRS-SSA records, supplemented importantly by the inclusion of the ASM list of 68,000 establishments. Since the IRS-SSA lists consist essentially of the names and addresses of companies rather than establishments,¹⁵ it was necessary to follow separate procedures for multiunit companies (those operating at more than one location).

The Precanvass.—Multiunit companies were required to file at least one establishment report¹⁶ covering each location. In order to select the appropriate questionnaires, it was necessary

to determine in advance the nature of operations at each location. Beginning early in 1972, therefore, a "Report of Company Organization" (forms NC-X1A, NC-X1B, and NC-X1C)¹⁷ was obtained from firms known to be multiunits from previous census records. Form NC-X1A was mailed to all of the larger multiunit companies. Form NC-X1B was mailed to multiunit companies operating under 4 or less employer-identification numbers and having 13 or less operating establishments. Form NC-X1C was mailed to multiunit companies which were operating under one employer-identification number, having 4 or less operating establishments and a total employment of 100 or less.

All of these forms consisted essentially of a report on company affiliation and a list of the domestic establishments operated by the company. Before the forms were mailed, the company's establishments as identified in census records were prelisted. In the instructions for form NC-X1A, the respondents were asked to make any necessary corrections to this list. In addition, they were asked to supply descriptions of any new establishments not already listed, including their approximate size.

Large multiunit companies were segregated for special handling in the prec canvass because problems involving overlap and duplication were anticipated. Many of these companies were active in retail and wholesale trade as well as in manufacturing. The instructions for the prec canvass were reviewed with these firms in personal discussions with officials of their accounting departments, in order to make certain that the procedure was understood and the establishments properly described on form NC-X1A.

Initial Control File.—This file, consisting of about 10 million names and addresses of companies, was assembled from IRS-SSA records and other sources including the 1972 economic census records. For manufacturing, the ASM records were incorporated in the file.

Single-Unit Companies.—The mailing lists for single-unit companies (those operating at only one location) were developed from the initial control file by removing out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiunits in the prec canvass. A special survey of out-of-scope companies with more than 50 employees in selected industries was conducted to doublecheck their eligibility, and some names were added to the mailing list as a result. Single units with over 150 employees were mailed form NC-X1B to determine if they were multiunits.

The final step was to set aside the records of the small companies for which census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-unit companies.

¹⁵ The SSA records for multiunit companies identify "reporting units," which in many instances correspond to census establishments. The differences are such, however, that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Census Bureau concept of a company differs from the IRS-SSA definition, since the Census company includes all establishments under common ownership or control; in the IRS-SSA records, subsidiary corporations are often treated as independent companies.

¹⁶ If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see "Establishment Basis of Reporting" in section 4, above.)

¹⁷ These forms are reproduced in appendix C.

Classification cards (a sample form is reproduced in appendix C) were mailed to the administrative record cases if their historical code was involved in the 1972 SIC revision. Each establishment was requested to describe on the questionnaire the products manufactured or activity performed at their plant, the establishment was then classified according the response received. If a response was not received, the establishment was reclassified to the most probable industry.

General Schedule.—While the lists assembled in these ways were generally adequate in providing sufficient industry information to determine the proper form for mailing, a number of the records did not have precise industry information associated with them. Form NC-X3, "General Schedule," which is reproduced in appendix C, was mailed to all such companies. Since it was assumed that these companies were quite small, only a few key figures were requested. On the basis of the information reported, these reports were coded and included in the basic tabulations. If form NC-X3 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

9. GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the census data by standard metropolitan statistical areas, counties, and cities. As in previous censuses, the post office address and ZIP code of the establishment were not always accepted as defining the physical location, but respondents were required to describe the actual location in terms of street address, city, town or village, county, and State. For establishments located in rural territory, the name or number of the nearest highway was requested and the distance from the nearest town or other urban place.

In censuses prior to 1963, clerks assigned geographic code numbers to each establishment based on the description furnished by the respondent. This process was slow and required careful verification. Beginning with 1963, a computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The prefix symbol indicated whether or not the mailing address was clearly acceptable as describing the physical location. If there was any question about its acceptability, the respondent's description was later carefully reviewed after the questionnaire was received. The assignment of tentative code numbers by the computer was based on extensive reference files containing nearly a million business names and addresses.

The geographic coding system used in the 1972 economic censuses was based on the 1967 system with some improvements and revisions. The major changes included updating and

expanding the address reference file and the use of new techniques in coding and unscrambling addresses against the reference file.

10. DATA COLLECTION

General.—Although the greater use of administrative records in 1972 substantially reduced the number of companies canvassed directly, there remained nearly 2 million which were required to file, including about 192,000 manufacturers. The assembly of several hundred different questionnaires into mailing packages, correctly labeled and coded, combined with the correct instruction booklets, was an extensive operation.

Instructions.—Several general instruction booklets were prepared to assist respondents in completing questionnaires for the 1972 economic censuses. In addition, separate detailed instruction manuals were printed for establishments in a few kinds of business and in certain mineral industries with peculiar reporting problems, as well as for manufacturing establishments reporting on the detailed standard forms.

Timing.—The bulk of the 1972 questionnaires was mailed by mid-January 1973 with a due date of February 15, about 2 months earlier than the corresponding due date for the 1967 censuses. The collection phase was completed in late July 1973, which was about 3 months earlier than the 1967 census.

Followup.—Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. A reminder card was used for the first followup, and form letters were used in the four subsequent mailings. Two basic letter formats were used: one for multiunit companies that had returned questionnaires for some but not all establishments and the other for companies that had not responded at all.

In addition to the letters for the 3d, 4th and 5th followups, analysts made telephone calls to the large companies to help with reporting problems and to request that the forms be completed and returned.

The last followup letter was mailed in June 1973. Estimates based on data from administrative records were included in the census tabulations for the relatively small number which had not responded by the closeout date in July 1973. Thus, all companies and establishments included in the original mailing list (except those determined to be inactive during 1972) were represented in the final statistical results, either by actual returns or by proxy returns generated from administrative records. A special effort was made to obtain actual returns from all large firms, so that the volume of business represented by proxy returns was relatively very small.

11. DATA PROCESSING

General.—The editing,^{1 8} coding, and tabulation of data for the five million establishments represented in the 1972 economic censuses was a complicated task requiring extensive advance planning and careful coordination among the Census Bureau's organization subdivisions. Automatic data processing and other advanced techniques were used in all phases to a considerable extent.

Facilities.—In the mail collection phase, the questionnaires were returned by respondents to the Census office at Jeffersonville, Ind., where most noncomputer (that is, clerical) processing operations were performed. The Jeffersonville functions consisted mainly of preliminary screening of questionnaires, carrying on routine correspondence with respondents, keying data on a key-to-disk system, and transmitting the tape encoded data to Washington on a high-speed transmission system. The Washington staff handled computer operations and all operations in connection with the use of IRS and SSA records.

Preliminary Screening.—After they were checked in against control lists and assigned geographic codes, the questionnaires were reviewed clerically to see that they conformed to certain minimum requirements before further processing. In the case of multiunit companies, the sum of employment and payrolls reported on its establishment questionnaires was compared with the control totals reported on form NC-K1, "Company Summary Report." Questionnaires received from ostensibly single-unit firms were reviewed to ascertain whether they had become multiunits through merger or acquisition. All questionnaires were reviewed to see that the entries were legible and keyable and that entries appeared for a number of key items. For manufacturing establishments returns, the key items were payrolls and value of shipments. Questions arising in the screening operation were resolved by writing or telephoning the respondents. Complex problems involving multi-unit companies were either handled by a special task force of experienced analysts in Jeffersonville or were referred to the Washington office.

Computer Editing.—All of the establishment records from the 1972 censuses of manufactures and mineral industries underwent computerized processes of screening and detailed testing of data. While many of these programs were newly devised in 1972 they were largely based on similar programs in use during previous censuses. Average values and tolerance limits for key

operating ratios (for example, cost of materials per dollar of shipments, payroll per employee, production-worker wages per man-hour, etc.) played a fundamental role in the editing process. However, more extensive testing and more sophisticated routines for adjusting data which failed the tests were incorporated into the 1972 programs. The need for computer editing may be judged by the fact that more than half of all 4-digit SIC industries had one or more data cells changed by more than 5 percent as a result of application of these programs.

In the 1972 census of manufactures, nearly 386,000 establishments were initially defined as being potentially in scope of manufacturing establishments. Approximately 55,000 were identified as having no activity in 1972 or actually out of scope of manufacturing. There were approximately 18,000 duplicate establishment records, which were removed. The ending file consisted of nearly 313,000 establishments engaged in manufacturing activities.

In sequence, the computer programs used included a Housekeeping and Screening Edit, a Coverage Control and Matching Edit, a Magnitude Edit, a General Statistics Edit, an Intercard-Intercolumn Edit, a Product and Materials Edit, Duplicate Removal Programs, and various programs of referral and of aggregate testing. These programs are described in outline form below. Also included within this sequence were programs of geographic coding and of industry coding, subindustry coding, and SIC recoding which are described elsewhere in this Introduction.

The *Housekeeping and Screening Edit* was designed to inspect each record for the presence of basic information such as identification numbers, geographic codes, and source codes (that is, ASM, census of manufactures, or census of minerals). This program also included some simple data adjustments, such as the replacement of a missing total by a corresponding sum of detail.

The *Coverage Control and Matching Edit* was a system of programs which checked the consistency of clerically assigned codes with information reported on the ownership status of the establishment. For ASM establishments, the program included matching with the 1971 ASM record file to identify corresponding prior-year records.

The *Magnitude Edit* was designed to test the size of two key items—payrolls and value of shipments. For ASM establishments, these items were compared with the corresponding entries for 1971 and were accepted if satisfactory. If not accepted, the ASM records were channeled through the standard edit which compared payrolls to a historical employment-size code. Payroll figures passing the test were then used, in conjunction with cost of materials, in testing the value of shipments.

When failures in the magnitude tests were encountered, a fixed sequence of attempts to adjust the data were performed,

^{1 8} In data processing, the term "editing" means the review of information collected on questionnaires or from other sources, with the objective of locating and correcting erroneous entries.

which included dividing a reported figure by 1,000 (a common error was the reporting of values in dollars rather than in thousands of dollars as requested), or replacing a total by a sum of detail where these differed.

More than 34,000 establishments were rejected from the combined output of the Housekeeping and Screening Edit, from the Coverage Control and Matching Edit, and from the Magnitude Edit. These rejects were clerically reviewed, corrected where necessary, and recycled back into the computer.

The *General Statistics Edit* tested key operating ratios and adjusted the record or flagged it for later attention if it failed the test. Fifty-two such ratios were assigned for use in testing census of manufactures records, and 41 ratios of change between 1971 and 1972 were used in testing the ASM reports. The tolerance limits and average values for these 93 ratios were based on the limits used for the corresponding tests in the 1967 census, with some correction and updating based on the 1971 ASM information.

In the presence of ratio failures, the computer program was designed to determine the component of the ratio which was most likely to have caused the failure. This was done by a process of inspecting other ratios containing each of the suspect components, and by computing an overall weighted-reliability index for each. The component with the lowest reliability index was judged to be incorrect. The computer then attempted to adjust the questionable figure by a process of "rounding" (multiplying or dividing by successive powers of 10), substitution of a total by a sum of detail, or by imputation based on one of the several ratios in which the suspect component was contained. After each such attempted adjustment, the new figure was accepted if it resulted in an improved reliability index.

In addition to the testing and correction of reported information, the General Statistics Edit was the vehicle for the imputation of data for the 120,000 establishments designated as administrative-record cases, as well as data for companies whose reports were not received at the time the data were tabulated. Imputation for all reasons, failure to report as well as administrative records, accounted overall for about 5 percent of the total value of shipments. Records were not rejected and removed from the computer tapes in the General Statistics Edit, but were flagged and printed out for review by an analyst whenever the computer made a large adjustment, found a large year-to-year change, or could not make an acceptable adjustment after test failure. Excluding administrative records, about 22,000 such cases were printed out for review and possible correction.

The *Inter-card-Inter-column Edit* was designed to test specific relationships among products, materials, and special inquiries. The record was flagged for inspection if the test failed; some 11,000 records were printed out for review from this edit.

The *SIC recoding program* recoded industry codes, product codes, and material codes, which were reported on the 1967 SIC system by means of reference tapes to the 1972 SIC system. Each establishment was assigned an old (1967) SIC industry code and a new (1972) SIC industry code based on the product mix reported in item 18 of the report forms. These industry codes were retained in the establishment record in order to tabulate and bridge the information. (See appendix B for a comparison of the old and new SIC's).

The *Product and Materials Edit* was performed after the data on products and materials had been extracted from the basic establishment records, assembled in product (or material) sequence, and recoded to the 1972 SIC code system. The edit was designed to inspect the reported quantities of production and of consumption after the corresponding values were tested and found acceptable. Unit values, in terms of dollar value per unit of quantity, were computed and ranked from highest to lowest. The most extreme values were removed, and the truncated data were used in the formulation of parameters (average deviation, central value, and upper and lower tolerance limits) which were printed out for review by analysts. This routine differs from those in other edits in that the parameters for editing were developed from the data at hand rather than from historic data or predetermined reasonableness limits.

The *Duplicate Removal Programs* were designed to identify and eliminate duplicate establishment records from the census. The sources of duplication were many; imputed records which were followed by late receipts of a report from the respondent were typical; multiunit companies having plants duplicated on their list of establishments; receiving or imputing full-year plant reports from the selling (predecessor) and acquiring (successor) companies; companies being imputed as single units which had reported as multiunits. A potential duplicate program was used to identify, for analysts' inspection, establishments which were in the same industry, same area, and approximately the same size. These programs resulted in the elimination of nearly 18,000 duplicate establishment records from the census file.

As in previous censuses, this preliminary round of computer editing and professional correction was followed by a more detailed review of establishment records. Among the devices used at this stage was an "outlier" program which printed out ASM establishment reports of dubious quality in terms of their internal consistency. The outlier program used some of the same ratios as the General Statistics Edit, but with parameters updated to reflect the characteristics of 1972, rather than earlier data. Records with one or more suspicious ratios were printed out for review. In addition, aggregates of records at the industry and the geographic cell level were inspected with ratio tolerance limits adjusted to reflect the number of establishments contributing to the cell.

12. COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The prec canvass and other special procedures for multiunit companies described in section 8, "The Mailing Lists," and section 10, "Data Collection," were designed to secure complete lists of establishments, thereby amplifying the IRS-SSA company list. Control totals, in terms of employment and payrolls of multiunit companies, were also used to verify the completeness of establishment coverage. This procedure is discussed in section 11, "Data Processing."

Comparison of statistics tabulated from the census of manufactures with the Census Bureau's Current Industrial Reports series, or with data originating with other agencies was possible

in many instances, thus providing a further confirmation of completeness and accuracy. These figures range from employment and wage totals compiled by the Bureau of Labor Statistics to detailed commodity output figures published by the Internal Revenue Service, the Fish and Wildlife Service, and the Department of Agriculture. In the industry reports in Volume II, differences between the census of manufactures and other statistics are explained wherever possible. Census of manufactures comparability with broad measures such as national income, new capital expenditures, and production indexes are discussed elsewhere in this introduction. The Census Bureau's other procedures designed to improve the accuracy of the census data are discussed above in the sections on data collection and processing. Comments on the valuation of intracompany shipments by multiunit companies are included in section 15.

III. COMMENTS ON STATISTICAL MEASURES AND TABLES

(Explanations and definitions of the various measures of activity for which statistics are compiled in the census of manufactures are presented in appendix A. In the following sections, the limitations and other characteristics of some of these measures are discussed, the content of the statistical tables is described, and comparisons with other statistical series are presented.)

13. EMPLOYMENT AND PAYROLLS IN ADMINISTRATIVE OFFICES AND AUXILIARY ESTABLISHMENTS

In the industry chapters of Volume II, the data on employment and payrolls refer to operating manufacturing establishments and are so described. In the summary tables and the area reports, the employment and payrolls of central administrative offices and auxiliary establishments are included as well. However, whereas the operating establishments were coded to a 4-digit manufacturing industry, the administrative offices and auxiliaries were coded only to the 2-digit industry group of the establishments they served. In most of the tables with industry detail, the administrative offices and auxiliaries are shown as a separate industry group, but statistics for them by 2-digit industry appear in each volume in the General Summary tables. The relative importance of administrative offices and auxiliaries has increased substantially in recent years, because of a tendency to centralize functions formerly performed in manufacturing plants. Such functions include accounting (particularly where computerized), warehousing,

repair services, and miscellaneous others. As indicated in table H, this tendency was quite marked between 1954 and 1963 and between 1967 and 1972.

TABLE H. Employment in Central Administrative Offices and Auxiliaries and in Operating Manufacturing Plants: 1972 and Earlier Census Years

Census year	Employees in operating manufacturing establishments		Employees in central administrative offices and auxiliaries		
	Thousands of employees	Percent change from previous census year	Thousands of employees	Percent change from previous census year	Percent of total employment ¹
1972	19,029	+2.9	994	+19.8	5.2
1967	18,492	+14.0	830	+14.3	4.3
1963	16,235	+5.3	726	+20.6	4.3
1958	15,423	-1.4	602	² +32.9	3.8
1954	15,645	(NA)	453	(NA)	2.8

(NA) Not available.

¹ The total includes manufacturing establishments, central administrative offices, and auxiliaries.

² The apparent increase from 1954 to 1958 is believed to be somewhat overstated, because coverage of administrative offices and auxiliaries was more complete in the 1958 census.

Source: Census of manufactures.

14. MATERIALS

In addition to the total cost of materials which every establishment was requested to report, quantity and cost information was collected for approximately a thousand specific materials. About 350 of these were "complete coverage" materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least 90 percent of manufacturing consumption. For the remaining materials, information on consumption was obtained on a more limited basis, generally only in those industries in which the materials were important inputs. Detailed consumption information was collected in the standard materials inquiry, in the product inquiries (for items which were produced and consumed in the same plant), or in a few instances in special inquiries. The resulting statistics are presented mainly in tables 6A and 7A of the industry chapters, Volume II.

Because American industry uses an enormous variety of materials, the choice of materials for which "complete coverage" consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was based on the following criteria:

- (a) The importance of the material as measured by the total value of U.S. consumption of the material;
- (b) The percentage of total consumption accounted for by manufacturing establishments;
- (c) The availability of consumption information from manufacturers' records, and
- (d) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited-coverage basis were chosen not only because they constituted important inputs for particular industries but frequently because they provided information necessary to classify plants by SIC industry. In using the detailed data on materials consumed which appear in table 7A in the industry chapters of Volume II, the following limitations should be noted:

- (a) Materials were reported for the establishment as a whole and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the industry totals appearing in table 7A represent consumption in secondary products as well as primary products of the industry represented. The extent of secondary production is measured by the specialization and coverage ratios shown in table 5B of the industry chapters.
- (b) Attention should be paid to the codes ending in "000" and captioned "materials, parts, containers, and

supplies, not specified by kind." The amounts appearing on these lines represent imputed totals for establishments whose statistics were developed by use of administrative records, and totals for other establishments which failed to report their consumption in specific terms. Thus, for most industries, the specific categories are understated. A judgment on the statistical significance of the understatement for each industry may be made on the basis of the relationship of the value shown for the "not specified by kind" (code 000) line compared with the total of materials, components, parts, containers, and supplies for the industry.

(c) Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$5,000. The use of this cutoff is not believed to have had a significant effect on the totals.

(d) A total of "not elsewhere classified" (n.e.c.) material code 970099 was collected on most forms and is published for each industry. This represents the total cost of materials for an industry for which no material items were prelisted on the form. Survey MA-131, 1972 Supplemental Survey of Materials Consumed, a sample survey of 141 industries, was conducted in 1972 to provide material consumption estimates for the cost of materials reported in material code 970099. Results of this survey are shown in chapter 5, Materials Consumed.

15. VALUE OF SHIPMENTS BY MULTIUNIT COMPANIES

General.—Except for a few industries as indicated in appendix A, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Multiunit companies were instructed to report for each establishment as if it were a separate economic unit and, in particular, to report interplant transfers at their full economic value, including not only the cost of production but also a reasonable proportion of company overhead and profits. Since there is no advertising or other selling cost involved, it would be expected that the value per unit of such transfers would be less than that for commercial sales. The plant receiving the transferred goods was instructed to include them in its cost of materials, valued as at the shipping point plus the cost of freight and other handling charges.

In the case of goods transferred to sales branches, or sold through separate sales offices, the implication of the "f.o.b. plant" instruction is that the value is at a somewhat lower level than the final invoice value, because the cost of selling (mainly the cost of operating the sales branch or office) is excluded.

In practice, there is reason to believe that these instructions were not followed by all companies. In a recordkeeping practices study of 54 multiunit companies conducted a few years ago, it was found that about half of them had reported interplant transfers of semifinished products at commercial or market prices, which tend to be somewhat higher than the "cost plus overhead and profit" requested in the census instructions. In the case of finished products transferred to separate selling organizations, half of the companies interviewed valued the products at their final or invoice price, which again would be somewhat higher than the "f.o.b. plant" transfer value requested. It appears from this study and other observations that the value of shipments of products reported by multiunit companies tends to be overstated. For products characterized by a substantial amount of interplant shipments, separate quantity and value figures were requested on the census forms. Data on these shipments, the unit value of which is less accurate than the unit value for shipments outside the company, are presented separately in table 6A in the industry chapters of Volume II.

Individual Products.—In the 1972 census program, information was collected on the output of approximately 10,500 individual product items.²⁰ The term "product" as used in the census of manufactures represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. In some cases, it may be much more detailed, and in other cases, it is more aggregative. For example, pharmaceutical preparations were reported in terms of 160 products, while canned meats was a single product. Frequently, large aggregative values at the product level indicated that detailed production figures were available from other government sources or reliable private surveys.

Some 5,500 of the product items were listed separately on the 1972 census report forms. Data for the remaining 5,000 products were obtained in the monthly, quarterly, or annual commodity surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1972 for these items as derived from the commodity surveys are shown in the "product shipped" table (table 6A) in the industry chapters of Volume II together with the tieline total value collected in the census for reconciliation.

Typically, both quantity and value of shipments information was collected. However, if there was no meaningful physical quantity measure that could be reported by manufacturers, only value of shipments was collected. For products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, total quantities produced and often the quantities con-

sumed within the plant were collected. Typically, the information on production was also collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

Classes of Products.—For the purpose of summarizing the product information, the separate products were aggregated into classes of products which were, in turn, grouped into all primary products of each industry. The code structure used is a 7-digit number for the individual product, a 5-digit code for the class of product, and a 4-digit code for the total primary products in an industry (see section 4 for application of coding structure to the assignment of SIC codes for establishments).

The 10,500 product items in the 1972 census (including products from the Current Industrial Reports program) were grouped into approximately 1,293 separate classes. Products were grouped into product classes to bring out significant differences in the broad types of products within a 4-digit industry. General similarity of the kind or purpose of the products or of the manufacturing processes, type of markets, or of materials used, were the basis for product combinations. The economic significance of the class was also taken into account; residual products of an industry were grouped when the products were not sufficiently significant in dollar value to warrant separate classes.

As a result of the increased number of respondents included in the product-class shipments totals, these categories lend themselves to many more cross tabulations than do the 7-digit products, without disclosing information about the operations of individual companies. In the industry chapters of Volume II, table 6B provides information on the value of shipments of product classes by State; and table 5C, by industry of the establishment producing them. The latter table is the best vehicle for showing the primary and secondary product mix of an industry, as well as the interrelationship between the 4-digit industry value of shipments and the 4-digit product group value of shipments. In table 5A the product class is used to provide finer industry-type general statistics by classifying establishments within an industry according to the degree to which they specialize in producing a specific class of products.

The class-of-product concept was incorporated by the Census Bureau into its own program with the 1947 Census of Manufactures after it developed the technique in the compilation of World War II production statistics. Product classes formed the basis of collecting product information in the annual survey of manufactures when that survey was initiated in 1949. The classes have been revised over the succeeding years to improve the balance and significance of product combinations within each industry and to keep abreast of the growth and decline of products.

²⁰ See 1972 Census of Manufactures, MC72-1.2 "Numerical List of Manufactured Products," and MC72-1.1 "Alphabetic List of Manufactured Products," (1967 SIC basis).

INTRODUCTION—Continued

Effect of Use of Administrative Records on Product Data.—As noted elsewhere in this Introduction, 1972 census statistics for about 120,000 small manufacturers were developed by use of IRS and SSA records. Since the SSA records were coded only to the 4-digit SIC level, it was not considered feasible to estimate the product output of these small companies in terms of specific 5-digit product classes or 7-digit products. The total value of output was therefore coded to the 4-digit level and published separately in table 6A of the industry chapters of Volume II. In table I, page 18, these data have been summarized together with other undistributed 4-digit totals reported

by the larger companies. It will be seen from table I that the contribution of the small companies (administrative records) to product totals was of little importance except in lumber, furniture, and printing and publishing (groups 24, 25 and 27). The large companies (mailed establishments) which for various reasons reported only in terms of group totals were of somewhat more importance, accounting overall for about 3 percent of the total value of product shipments.

Nominally, the shipments of "small companies" as shown in table I represent the output of all establishments with less than 10 employees. Actually, only 35 percent of the value of

TABLE I. Value of Products Not Specified by Kind: 1972 and 1967

Product group code ¹	Total value of product shipments (mil. dol.)		Products not specified by kind											
			Total (mil. dol.)		Large companies (mil. dol.)		Small companies ² (mil. dol.)		Percent attributed to—					
									Total		Large companies		Small companies	
	1972	1967	1972	1967	1972	1967	1972	1967	1972	1967	1972	1967	1972	1967
Total	739,426.8	539,470.1	35,968.3	23,387.2	25,132.6	17,884.6	10,835.7	5,430.6	4.9	4.3	3.4	3.3	1.5	1.0
20	106,779.6	78,650.9	5,700.5	4,088.2	4,302.6	3,326.7	1,397.9	761.5	5.3	5.2	4.0	4.2	1.3	1.0
21	5,540.2	4,589.7	40.8	46.4	32.3	44.2	8.5	2.2	.7	1.0	.6	1.0	.1	.1
22	30,884.3	20,141.0	833.3	619.1	672.3	550.1	161.0	69.1	2.7	3.1	2.2	2.7	.5	.3
23	29,247.5	19,748.9	2,435.6	1,992.5	1,728.9	1,686.0	706.7	306.5	8.3	10.1	5.9	8.5	2.4	1.6
24	22,919.6	10,585.7	2,999.3	1,614.7	1,405.0	774.7	1,594.3	840.0	13.1	15.2	6.1	7.3	7.0	7.9
25	10,843.2	8,110.2	1,155.5	702.6	848.5	485.7	307.0	216.9	10.6	8.7	7.8	6.0	2.8	2.7
26	27,227.4	20,049.3	791.2	575.3	677.6	512.4	113.6	62.9	2.9	2.9	2.5	2.6	.4	.3
27	29,347.5	20,878.9	3,433.1	1,805.2	1,891.6	923.1	1,541.5	882.1	11.7	8.6	6.4	4.4	5.3	4.2
28	53,038.9	40,013.1	1,567.3	1,030.3	1,140.7	851.9	426.6	178.4	3.0	2.6	2.2	2.1	.8	.5
29	27,349.6	20,992.8	330.0	159.2	255.6	130.0	74.4	29.2	1.2	8.8	.9	.6	.3	.1
30	19,963.5	12,236.8	1,360.3	512.5	1,048.3	414.6	312.0	97.9	6.8	4.2	5.2	3.4	1.6	.8
31	5,472.0	4,849.8	335.0	238.8	242.4	180.8	92.6	58.0	6.1	4.9	4.4	3.7	1.7	1.2
32	21,139.7	13,596.9	1,042.1	585.6	678.7	404.3	363.4	181.3	4.9	4.3	3.2	3.0	1.7	1.3
33	71,058.4	55,926.8	1,225.0	670.6	1,069.8	607.9	155.2	62.7	1.7	1.2	1.5	1.1	.2	.1
34	51,167.1	32,928.9	3,677.9	2,720.7	2,847.1	2,342.1	830.8	378.6	7.2	8.3	5.6	7.1	1.6	1.2
35	60,212.7	46,076.8	4,085.9	2,874.8	2,699.2	2,223.4	1,386.7	651.4	6.8	6.2	4.5	4.8	2.3	1.4
36	49,958.8	39,429.2	1,464.2	937.8	1,148.2	793.5	316.0	144.3	2.9	2.4	2.3	2.0	.6	.4
37	91,522.0	64,976.3	1,413.5	854.7	1,126.8	718.3	286.7	136.4	1.5	1.3	1.2	1.1	.3	.2
38	14,484.8	8,759.8	556.1	340.2	413.8	263.3	142.3	76.9	3.9	3.9	2.9	3.0	1.0	.9
39, 19 ³	11,270.0	16,928.6	1,521.7	945.9	903.2	651.6	618.5	294.3	13.5	5.6	8.0	3.8	5.5	1.7

Note: These values represent product shipments, irrespective of the industry in which the products were made, and therefore differ from the industry group totals shown in the General Summary tables.

¹ The product shipment data for 1972 are tabulated on the 1972 (new) SIC basis; therefore data for 1972 and 1967 are not completely comparable for most of the major 2-digit groups due to the reclassification of products in the 1972 SIC revision across 2-digit groups. See appendix B for the products of 4-digit industries that were reclassified across 2-digit major groups.

² Estimates derived from administrative records. See text for further discussion.

³ In the 1972 SIC revision, the products for Major Group 19 were reclassified to Major Groups 34, 36, 37, and 38.

shipments of establishments with less than 10 employees was obtained from administrative records. This was due to several factors, the most important of which were—

(a) Many of the establishments with less than 10 employees were owned by multiunit companies and were covered in the mail canvass.

(b) Questionnaires were mailed to about 4,000 of the companies identified as having less than 10 employees. These were the small companies included in the ASM sample; the rest were included in the mail canvass to improve the estimates of general statistics, products, and materials.

(c) Some companies identified originally as having 10 employees or more turned out to have less than 10 employees in 1972.

Another factor tended to reduce the value of products not specified by kind attributed to small companies, thus affecting table 1 particularly. This was the fact that some 4-digit industries were represented by only one product category (an example is industry 3273, Ready-Mixed Concrete). Administrative-record estimates for products such as this were treated as specific information and not tabulated under the "not specified by kind" heading.

These factors taken together explain why the value of products "not specified by kind" attributed to small companies in table 1 is only 1.5 percent of the total, while the 159,000 establishments with less than 10 employees account for 2.5 percent of the total value added by manufacture in table E.

The value of product shipments accounted for by the small companies increased from 1.0 percent in the 1967 census to 1.5 percent in 1972. This is because considerably more establishments, initially identified as having less than 10 employees, actually had more than 10 employees in 1972.

The data for many of the specific 7-digit products shown in table 6A are understated by a proportion of the "not specified by kind" codes in each industry.

16. DUPLICATION IN COST OF MATERIALS AND VALUE OF PRODUCTS

The aggregates of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries include large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as SIC 3312, Blast Furnaces and Steel Mills, this duplication is not significant within individual 4-digit industries. However, it is significant at the 2-digit and 3-digit industry level because these group totals often include industries which represent successive stages in

the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the total value of shipments of SIC Major Group 20 and the addition of pulp-mills to papermills in Group 26. Economists have estimated that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of shipments reported in the census of manufactures.

Because the amounts of duplication contained in the cost of materials and value of products figures cannot be measured with any degree of precision, caution is urged with their use when they are provided at the 2- and 3-digit industry group level.

Even where no significant amount of duplication is involved, value of shipments figures are of limited use as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs to value of shipments, both among industries and within the same industry. To a large extent, value added by manufacture does not have these limitations and is therefore a better measure for comparison.

17. VALUE ADDED BY MANUFACTURE

General.—Value added by manufacture is derived by subtracting the total cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and miscellaneous receipts) from the value of shipments (including resales) and other receipts and adjusting the resulting amount by the net change in finished products and work-in-process inventories between the beginning and end of the year.²¹

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components along with the shipments of establishments producing finished products. It does not exclude purchased business services, as does the national income concept described below.²² Nevertheless, it is considered to be the best value measure now available for comparing the relative economic importance of manufacturing among industries and geographic areas.

²¹ For a few industries (for example, ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

²² Collection of data on the cost of purchased business services at the plant level presents many problems. Advertising by multiunit companies, for example, is frequently charged at the company level and the cost either not allocated to plants or if allocated are only included as part of a broader company overhead category. National income data, on the other hand, are compiled in part from company rather than plant data, such as the IRS Statistics of Income in which advertising is presented as a separate cost item based on company reports.

INTRODUCTION—Continued

National income originating in the manufacturing sector, as developed in the national accounts maintained by the Bureau of Economic Analysis (BEA), is somewhat similar to value added in concept, but there are important differences. National income is the aggregate earnings of labor and capital which arise in the current production of goods and services in the manufacturing sector. Thus it measures the total factor costs incurred and is a more "net" conception of value added than that which it has been found feasible to compile in the economic censuses on an establishment basis. National income

excludes, in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc.

In part, the national income estimates are prepared from company rather than establishment data. This method results

TABLE J. Comparison of National Income Originating and Value Added by Major Industry Group: 1972 and 1967

SIC code	Industry group description	National income originating ¹ (bil. dol.)		Value added by manufacturing (bil. dol.)		Column 1 divided by column 2	
		(1)		(2)			
		1972	1967	1972	1967	1972	1967
	Manufacturing	252.6	195.2	354.0	262.0	0.71	0.75
	Nondurable goods	99.9	75.5	149.5	109.5	.67	.69
20	Food and kindred products	20.8	16.3	35.6	26.6	.58	.61
21	Tobacco manufactures	1.8	1.3	2.6	2.0	.69	.65
22	Textile mill products	8.2	6.2	11.7	8.2	.70	.76
23	Apparel and other fabricated textile products	9.6	7.5	13.5	10.1	.71	.74
26	Paper and allied products	9.3	6.7	13.1	9.8	.71	.68
27	Printing, publishing, and allied industries	13.6	9.9	20.2	14.4	.67	.69
28	Chemicals and allied products	18.2	14.1	32.4	23.6	.56	.60
29	Petroleum refining and related industries	8.6	6.5	5.8	5.4	1.48	1.20
30	Rubber and miscellaneous plastics products	7.5	4.7	11.7	6.8	.64	.69
31	Leather and leather products	2.2	2.2	2.9	2.6	.76	.85
	Durable goods	152.7	119.7	204.6	152.7	.75	.78
24	Lumber and wood products, except furniture	7.1	4.2	10.3	5.0	.69	.84
25	Furniture and fixtures	4.5	3.2	6.1	4.2	.74	.76
32	Stone, clay, and glass products	8.5	5.8	12.6	8.4	.67	.69
33	Primary metal industries	17.4	15.3	23.3	20.0	.75	.77
34	Fabricated metal products	17.5	13.4	26.9	18.0	.65	.74
35	Machinery, except electrical	26.6	21.8	37.6	27.8	.71	.78
36	Electrical machinery	22.5	18.6	30.6	24.5	.74	.76
19 ²	Transportation equipment and ordnance, except motor vehicles	15.1	15.3	39.8	33.8	.95	.86
37	Motor vehicles and motor vehicle equipment	22.6	13.6				
38	Instruments	6.5	5.2	10.6	6.4	.61	.81
39	Miscellaneous manufacturing industries	4.4	3.3	6.8	4.6	.65	.72

¹ Source: Survey of Current Business, July 1970; July 1973, p. 22.

² This Major Group was recoded to Major Groups 34, 36, 37 and 38 in the 1972 SIC revision.

in the inclusion of some part of the net value added by non-manufacturing establishments of companies classified as being primarily manufacturing and, conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily nonmanufacturing. It is believed that for manufacturing as a whole the net effect increases national income. In the Petroleum and Coal Products major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one group in which national income exceeds value added, as shown in table J.

Historical Comparison.—Whatever changes have taken place in the relative importance of the costs included in value added but excluded from national income have been gradual. As shown in table K, the ratio between the two figures has been fairly constant over the past decade.

TABLE K. National Income Originating in Manufacturing and Value Added by Manufacture: 1972 and Earlier Years

Year	National income originating in manufacturing (bil. dol.) (1)	Value added by manufacture (bil. dol.) (2)	Column 1 divided by column 2
1972	252.6	354.0	0.71
1971	226.4	314.1	.72
1970	217.5	300.2	.72
1969	222.3	304.4	.73
1968	212.7	285.1	.75
1967	195.2	262.0	.75
1966	191.5	250.9	.76
1965	172.6	226.9	.76
1964	155.6	206.2	.75
1963	143.8	192.1	.75
1962	137.0	179.3	.76
1961	125.1	164.2	.76
1960	125.8	164.0	.77
1959	124.0	161.3	.77
1958	107.7	141.5	.76
1957	116.3	147.8	.79
1956	113.1	144.9	.78
1954	94.6	117.0	.81
1947	59.5	¹ 74.3	.80
1939	18.1	¹ 24.5	.74

¹ Unadjusted.

Sources: National income, survey of current business; value added, census of manufactures and annual survey of manufactures.

Reconciliation with National Income Components.—Figures are not available to permit a reconciliation of the estimates for value added in manufacturing and the national income originating in manufacturing for the current period. However, in 1957, the Census Bureau conducted a special survey, MC-D11, "Selected Costs and Assets of Manufacturing Establishments," which collected information on some of the costs included in value added for services purchased from other sectors or excluded from the national income estimates. These specific costs which accounted for about \$15 billion of the \$148 billion of value added in 1957 were maintenance and repairs, \$4.5 billion; insurance, \$.7 billion; property taxes, \$1.5 billion; rental payments, \$1.4 billion; and depreciation, \$7.3 billion. The residual value added, \$132 billion, was approximately \$16 billion in excess of national income of \$116 billion.

Table L presents an approximate reconciliation of national income and value added figures for manufacturing in 1957. The national income estimates for payrolls and other factor income in that year are based on the unrevised national income figures which are somewhat lower than the revised estimate appearing in table K. It should be noted that the labor costs included in national income and value added are reasonably close despite the fact that they are computed on a slightly different basis. If the proprietary and profit incomes of the company-based national income estimates are allocated to the establishments included in the census of manufactures, value added exceeds national income by \$35 billion of which \$15 billion is attributable to costs reported on survey MC-D11. Somewhat more than half of the \$35 billion excess represents the inclusion in value added by manufacture of purchased business services arising in other economic sectors; the remainder reflects conceptual differences arising from the inclusion, in value added, of indirect business taxes and depreciation which are excluded by definition from national income.

18. CAPITAL EXPENDITURES

Under this heading, manufacturers were instructed to report expenditures of the type chargeable to fixed assets accounts, for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year.

The Census Bureau estimates of capital expenditures tend to be lower than those published in the joint Bureau of Economic Analysis-Securities and Exchange Commission survey. In addition to normal sampling variation, a major source of difference is to be found in the scope of the two series. Census data relate only to manufacturing establishments,

TABLE L. 1957 Comparative Statistics on Value Added and National Income in Manufacturing

(Billions of dollars)

Item	Value added	National income ¹
Total	147.8	112.5
Payrolls	89.4	87.9
Payrolls of operating manufacturing establishments	76.4	² 80.6
Supplements to wages in operating manufacturing establishments	6.0	
Payrolls of central administrative offices and auxiliaries, sales branches and offices of manufacturing companies	⁴ 7.0	
Other factor incomes (Corporate profits, proprietary income)	24.6	³ 7.2
Costs of manufacturing establishments reported on MC-D11	15.4	24.6
Not part of national income:		
Depreciation	7.3	(X)
Property taxes	1.5	(X)
Probably included in other sectors:		
Maintenance and repairs	4.5	(X)
Rental payments	1.4	(X)
Insurance .....	.7	(X)
Other costs (company overhead other than payrolls included above; e.g., company-level depreciation, business taxes, and services purchased, and services purchased directly by plants, advertising, legal, accounting, and other professional services; communications, patent fees, royalties, travel costs, etc. ...)	18.4	(X)

(X) Not applicable.

¹ Prior to 1958 revisions of national income. The revised total was \$116.3 billion.² Payrolls.³ Supplements to wages.⁴ Estimate based on figures reported in the 1958 economic censuses.

whereas the BEA-SEC series covers all establishments of manufacturing companies—nonmanufacturing as well as manufacturing. This factor is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. On the other hand, manufacturing establishments of companies engaged primarily in nonmanufacturing activities are excluded from

the BEA-SEC series but included in census figures. The BEA-SEC and census data for recent years are shown in tables M and N.

19. PLANT SPECIALIZATION

As discussed in section 4 above, the primary products of a plant are those which determine its industry classification; all other products are referred to as secondary products. The value of a plant's primary products in comparison to its total production is referred to as its degree of specialization. For each plant, two measures of specialization were computed: (1) A 4-digit primary product-specialization ratio, which is the sum of the values of all the plant's primary products divided by the sum of all its primary and secondary products; and (2) a 5-digit primary product-class specialization ratio, which is the sum of the largest 5-digit product-class value divided by the sum of its primary and secondary products (the miscellaneous receipts of the establishment were not included in these

TABLE M. Expenditures for New Plant and Equipment—BEA-SEC Series and Census: 1972 and Earlier Years

Year	BEA-SEC series ¹ (bil. dol.) (1)	Census (census of manufactures and ASM) (bil. dol.) (2)	Column 2 divided by column 1
1972	31.4	24.1	0.77
1971	30.0	20.9	.70
1970	32.0	22.2	.69
1969	31.7	22.3	.70
1968	28.4	20.6	.72
1967	26.7	21.5	.81
1966	27.0	20.2	.75
1965	22.5	16.6	.74
1964	18.6	13.3	.72
1963	15.7	11.4	.73
1962	14.7	10.0	.68
1961	13.7	9.8	.72
1960	14.5	10.0	.69
1959	12.1	9.3	.77
1958	11.4	9.6	.84
1954	11.0	8.2	.74
1947	8.7	² 6.0	.69

¹ Source: 1974 Business Statistics, U.S. Department of Commerce, Bureau of Economic Analysis.² Excludes data for establishments under construction but not yet in operation.

TABLE N. Expenditures for New Plant and Equipment—
BEA—SEC Series and Census of Manufactures, by Industry
Group: 1972

Industry groups	BEA-SEC series ¹ (bil. dol.) (1)	Census of manu- factures, (bil. dol.) (2)	Column 2 divided by column 1
All manufacturing, total	31.4	24.1	0.77
Durable goods, total	15.7	12.7	.81
Primary metals	2.8	2.1	.75
Electric machinery	2.4	1.4	.58
Machinery, except electric	2.9	1.9	.66
Transportation equipment	2.5	2.7	1.08
Stone, clay, and glass	1.2	1.2	1.00
Other durables	3.9	3.4	.87
Nondurable goods, total	15.7	11.4	.73
Food and beverages	2.6	2.4	.92
Textiles . . . . .	.7	1.1	1.57
Paper	1.4	1.3	.93
Chemicals	3.5	2.7	.77
Petroleum	5.3	1.2	.23
Rubber	1.1	1.1	1.00
Other nondurables	1.1	1.6	1.45

¹ Source: 1974 Business Statistics, U.S. Department of Commerce, Bureau of Economic Analysis.

calculations). For example, assume that an establishment reported the following:

Total value of shipments and other receipts	\$1,000
Miscellaneous receipts (resales, etc.)	15
Total value of products shipped	985
32721 Concrete pipe products	100
32722 Precast concrete products	785
32730 Ready-mixed concrete	100

This plant would be coded into SIC industry 3272, Concrete Products, with a primary product specialization ratio of 90 percent ($\$885 \div \985); it would be subclassified into the 5-digit class 32722, Precast Concrete, with a primary product class specialization ratio of 80 percent ($\$785 \div \985).

In the 1972 census, selected general statistics (number of establishments, employment, payrolls, value added, cost of materials, value of shipments, and capital expenditures) were tabulated to primary product-class levels by assigning the plant totals to the principal 5-digit codes. These data are presented in table 5A of the industry chapters, Volume II. For most product classes, table 5A also provides general statistics for establishments specializing in the class to the extent of 75 percent or more.

Table 5A permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or a subgroup (5-digit). For example, where the ratios among various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, the ratios for the industry as a whole would be significantly affected by changes in its product mix.

20. OPERATING RATIOS

Since all of the data collected in the census on establishment reports are interrelated, comparisons of the various measures of activity are of considerable interest. Beginning with the 1963 census, several ratios have been routinely computed and presented in the industry chapters of Volume II. For 1972 and earlier years, the following nine ratios were published for each 4-digit industry:

Payroll per employee
Production workers as percent of total employment
Annual man-hours of production workers
Average hourly earnings of production workers
Cost of materials per dollar of shipments
Cost of materials and payrolls per dollar of shipments
Value added per employee
Payrolls as percent of value added
Value added per man-hour of production worker

21. SUBJECT AND SPECIAL REPORTS SHOWN IN VOLUME I, SUMMARY AND SUBJECT STATISTICS

Volume I includes the seven subject reports and the six special reports presenting statistics which are not published

elsewhere. The following chapters were originally published in the subject series:

Chapter 1. General Summary.—This chapter, which appears in other volumes as well as Volume I, provides summary tabulations of data presented in greater detail in other census tables.

Chapter 2. Employment and Labor Costs in Operating Manufacturing Establishments.—This chapter presents the compilation of employment and labor costs for the United States as a whole and for each industry group and 4-digit industry. A more detailed description of the report and explanation of the terms employed is given in the introduction to the chapter.

Chapter 3. Manufacturers' Inventories.—These tables summarize the inventory data published in table 3 of the industry chapters of Volume II. A description of the statistics is given in appendix A.

Chapter 4. Expenditures for Plant and Equipment.—These tables summarize the expenditures data published in table 3 of the industry chapters of Volume II. A description of the data is given in appendix A and in section 18, "Capital Expenditures."

Chapter 5. Materials Consumed.—This chapter consists of a compilation of detailed statistics on consumption of materials, fuels, and electricity. These figures also appear in Volume II, Industry Statistics, as tables 7A and 7B for each industry.

Chapter 6. Gross Book Value of Depreciable Assets and Rental Payments.—This chapter presents the compilation of the gross book value of total assets and separate data for structure and machinery by industry group and industry. Rental payments for structures and machinery are also presented by industry group and industry. A more detailed description of the report and explanation of the terms employed is given in the introduction to the chapter.

Chapter 7. Selected Metalworking Operations.—This chapter presents the results of an inquiry concerning employment in metalworking plants such as foundry, forge shop, die casting department, and heat treating. The number of establishments in which these facilities are operated is presented, as well as the number of production workers engaged.

The following chapters were originally published in the special report series:

Chapter 8. Manufacturing Activity in Government Establishments.—This chapter presents data on manufacturing activities in selected types of government establishments in the United States. The statistics are not included in other census of manufactures tables, which cover only privately operated establishments. A more detailed description of the report is given in the introduction to the chapter.

Chapter 9. Concentration Ratios.—This chapter presents concentration ratios and other information on the share of industrial activity accounted for by the largest companies, both for the United States as a whole and for each of the 450 manufacturing industries. A more detailed description of the report and explanations of the terms employed is given in the introduction to the chapter.

Chapter 10. Type of Organization.—This chapter presents data for manufacturing establishments classified as to the legal form of ownership (corporate, individual proprietor, or partnership) and the establishment owner as a multiunit or single-unit company.

Chapter 11. Water Use in Manufacturing.—This chapter presents the results of a survey of the 1973 consumption of water in establishments consuming 20 million gallons or more annually. A more detailed description of the report and definitions of the terms employed, is given in the introduction to the chapter.

Chapter 12. Textile Machinery in Place.—This chapter presents the results of a 1973 survey on the number, by kind, of the various textile machines. Geographic breakdowns of the major textile operations are presented. The data are also broken out by industry for the various textile machines. A description of the statistics is given in the chapter.

Chapter 13. Fuels and Electric Energy Consumed.—This chapter consists of a compilation of detailed statistics on the consumption of fuels and electric energy from the 1971 Annual Survey of Manufactures. Data are presented on the quantity and costs of fuels and electric energy consumed for major groups and industries. A more detailed explanation of the estimates derived and terms employed are given in the introduction and the explanatory text for the chapter.

22. CONFIDENTIALITY

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In suppressing figures to avoid disclosing information of individual companies, geographic region and division totals are given precedence over individual States; States are given precedence over standard metropolitan statistical areas; standard metropolitan statistical areas over counties; and counties over cities. In tables showing industry detail, major industry group (2-digit) totals take precedence over industry group (3-digit) totals which, in turn, take precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings take precedence over 5-digit product classes and the latter over individual 7-digit products.

Such order of precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least significant) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry-group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

23. ABBREVIATIONS

The following abbreviations and symbols occur frequently in text, tables, and footnotes:

—	Zero
X	Not applicable
NA	Not available
D	Withheld to avoid disclosing figures for individual companies
n.e.c.	Not elsewhere classified
n.s.k.	Not specified by kind
lin.	Linear
equiv.	Equivalent
hp	Horsepower
kWh	Kilowatt-hours
SIC	Standard Industrial Classification
IRS	Internal Revenue Service
SSA	Social Security Administration
ASM	Annual Survey of Manufactures
CIR	Current Industrial Reports
BEA	Bureau of Economic Analysis
SEC	Securities and Exchange Commission

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."

Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.

Industry Descriptions

(Following is a compilation of the Industrial Security Classification (SIC) major groups and industries covered in the three parts of this volume of industry statistics.)

PART 1

Major Group 20—FOOD AND KINDRED PRODUCTS

20A Meat Products

- 2011 Meatpacking plants
- 2013 Sausages and other prepared meats
- 2016 Poultry dressing plants
- 2017 Poultry and egg processing

20B Dairy Products

- 2021 Creamery butter
- 2022 Cheese, natural and processed
- 2023 Condensed and evaporated milk
- 2024 Ice cream and frozen desserts
- 2026 Fluid milk

20C Preserved Fruits and Vegetables

- 2032 Canned specialties
- 2033 Canned fruits and vegetables
- 2034 Dehydrated fruits, vegetables, soups
- 2035 Pickles, sauces, and salad dressings
- 2037 Frozen fruits and vegetables
- 2038 Frozen specialties

20D Grain Mill Products

- 2041 Flour and other grain mill products
- 2043 Cereal breakfast foods
- 2044 Rice milling
- 2045 Blended and prepared flour
- 2046 Wet corn milling
- 2047 Dog, cat, and other pet food
- 2048 Prepared feeds, n.e.c.

20E Bakery Products

- 2051 Bread, cake, and related products
- 2052 Cookies and crackers

20F Sugar and Confectionery Products

- 2061 Raw cane sugar
- 2062 Cane sugar refining
- 2063 Beet sugar
- 2065 Confectionery products
- 2066 Chocolate and cocoa products
- 2067 Chewing gum

20G Fats and Oils

- 2074 Cottonseed oil mills
- 2075 Soybean oil mills
- 2076 Vegetable oil mills, n.e.c.
- 2077 Animal and marine fats and oils
- 2079 Shortening and cooking oils

20H Beverages

- 2082 Malt beverages
- 2083 Malt
- 2084 Wines, brandy, and brandy spirits
- 2085 Distilled liquor, except brandy
- 2086 Bottled and canned soft drinks
- 2087 Flavoring extracts and sirups, n.e.c.

20I Miscellaneous Foods and Kindred Products

- 2091 Canned and cured seafoods
- 2092 Fresh or frozen packaged fish
- 2095 Roasted coffee
- 2097 Manufactured ice
- 2098 Macaroni and spaghetti
- 2099 Food preparations, n.e.c.

Major Group 21—TOBACCO MANUFACTURES

21A Tobacco Products

- 2111 Cigarettes
- 2121 Cigars
- 2131 Chewing and smoking tobacco
- 2141 Tobacco stemming and redrying

Major Group 22—TEXTILE MILL PRODUCTS

22A Weaving Mills

- 2211 Weaving mills, cotton
- 2221 Weaving mills, manmade fiber and silk
- 2231 Weaving and finishing mills, wool
- 2241 Narrow fabric mills

22B Knitting Mills

- 2251 Women's hosiery, except socks
- 2252 Hosiery, n.e.c.
- 2253 Knit outerwear mills
- 2254 Knit underwear mills
- 2257 Circular knit fabric mills
- 2258 Warp knit fabric mills
- 2259 Knitting mills, n.e.c.

22C Dyeing and Finishing Textiles, Except Wool Fabrics and Knit Goods

- 2261 Finishing plants, cotton
- 2262 Finishing plants, manmade fiber and silk
- 2269 Finishing plants, n.e.c.

22D Floor Covering Mills

- 2271 Woven carpets and rugs
- 2272 Tufted carpets and rugs
- 2279 Carpets and rugs, n.e.c.

- 22E Yarn and Thread Mills**
 2281 Yarn mills, except wool
 2282 Throwing and winding mills
 2283 Wool yarn mills
 2284 Thread mills
- 22F Miscellaneous Textile Goods**
 2291 Felt goods, except woven felts and hats
 2292 Lace goods
 2293 Paddings and upholstery filling
 2294 Processed textile waste
 2295 Coated fabrics, not rubberized
 2296 Tire cord and fabric
 2297 Nonwoven fabrics
 2298 Cordage and twine
 2299 Textile goods, n.e.c.

Major Group 23—APPAREL AND OTHER TEXTILE PRODUCTS

- 23A Men's and Boys' Apparel**
 2311 Men's and boys' suits and coats
 2321 Men's and boys' shirts and nightwear
 2322 Men's and boys' underwear
 2323 Men's and boys' neckwear
 2327 Men's and boys' separate trousers
 2328 Men's and boys' work clothing
 2329 Men's and boys' clothing, n.e.c.
- 23B Women's and Misses' Outerwear**
 2331 Women's and misses' blouses and waists
 2335 Women's and misses' dresses
 2337 Women's and misses' suits and coats
 2339 Women's and misses' outerwear, n.e.c.
- 23C Women's and Children's Underwear, Headwear, Children's Outerwear**
 2341 Women's and children's underwear
 2342 Brassieres and allied garments
 2351 Millinery
 2352 Hats and caps, except millinery
 2361 Children's dresses and blouses
 2363 Children's coats and suits
 2369 Children's outerwear, n.e.c.
- 23D Miscellaneous Apparel and Accessories**
 2371 Fur goods
 2381 Fabric dress and work gloves
 2384 Robes and dressing gowns
 2385 Waterproof outer garments
 2386 Leather and sheep lined clothing
 2387 Apparel belts
 2389 Apparel and accessories, n.e.c.

- 23E Miscellaneous Fabricated Textile Products**
 2391 Curtains and draperies
 2392 Housefurnishings, n.e.c.
 2393 Textile bags
 2394 Canvas and related products
 2395 Pleating and stitching
 2396 Automotive and apparel trimmings
 2397 Schiffli machine embroideries
 2399 Fabricated textile products, n.e.c.

Major Group 24—LUMBER AND WOOD PRODUCTS

- 24A Logging Camps, Sawmills, and Planing Mills**
 2411 Logging camps and logging contractors
 2421 Sawmills and planing mills, general
 2426 Hardwood dimension and flooring
 2429 Special product sawmills, n.e.c.
- 24B Millwork, Plywood, and Structural Wood Members, N.E.C.**
 2431 Millwork
 2434 Wood kitchen cabinets
 2435 Hardwood veneer and plywood
 2436 Softwood veneer and plywood
 2439 Structural wood members, n.e.c.
- 24C Wooden Containers and Miscellaneous Wood Products**
 2441 Nailed wood boxes and shooks
 2448 Wood pallets and skids
 2449 Wood containers, n.e.c.
 2491 Wood preserving
 2492 Particleboard
 2499 Wood products, n.e.c.
- 24D Wood Buildings and Mobile Homes**
 2451 Mobile homes
 2452 Prefabricated wood buildings

PART 2

Major Group 25—FURNITURE AND FIXTURES

- 25A Household Furniture**
 2511 Wood household furniture
 2512 Upholstered household furniture
 2514 Metal household furniture
 2515 Mattresses and bedsprings
 2517 Wood TV and radio cabinets
 2519 Household furniture, n.e.c.

**25B Office, Public Building, and Miscellaneous Furniture;
Office and Store Fixtures**

- 2521 Wood office furniture
- 2522 Metal office furniture
- 2531 Public building and related furniture
- 2541 Wood partitions and fixtures
- 2542 Metal partitions and fixtures
- 2591 Drapery hardware and blinds and shades
- 2599 Furniture and fixtures, n.e.c.

Major Group 26—PAPER AND ALLIED PRODUCTS

26A Pulp, Paper, and Board Mills

- 2611 Pulpmills
- 2621 Papermills, except building paper
- 2631 Paperboard mills
- 2661 Building paper and board mills

**26B Converted Paper and Paperboard Products, Except
Containers and Boxes**

- 2641 Paper coating and glazing
- 2642 Envelopes
- 2643 Bags, except textile bags
- 2645 Die-cut paper and board
- 2646 Pressed and molded pulp goods
- 2647 Sanitary paper products
- 2648 Stationery products
- 2649 Converted paper products, n.e.c.

26C Paperboard Containers and Boxes

- 2651 Folding paperboard boxes
- 2652 Setup paperboard boxes
- 2653 Corrugated and solid fiber boxes
- 2654 Sanitary food containers
- 2655 Fiber cans, drums, and similar products

Major Group 26—PRINTING AND PUBLISHING

**27A Newspapers, Periodicals, Books, and Miscellaneous
Publishing**

- 2711 Newspapers
- 2721 Periodicals
- 2731 Book publishing
- 2732 Book printing
- 2741 Miscellaneous publishing

27B Commercial Printing and Manifold Business Forms

- 2751 Commercial printing, letterpress
- 2752 Commercial printing, lithographic
- 2753 Engraving and plate printing
- 2754 Commercial printing, gravure
- 2761 Manifold business forms

27C Greeting Cards; Bookbinding; Printing Trade Services

- 2771 Greeting card publishing
- 2782 Blankbooks and looseleaf binders
- 2789 Bookbinding and related work
- 2791 Typesetting
- 2793 Photoengraving
- 2794 Electrotyping and stereotyping
- 2795 Lithographic platemaking services

Major Group 28—CHEMICALS AND ALLIED PRODUCTS

28A Industrial Inorganic Chemicals

- 2812 Alkalies and chlorine
- 2813 Industrial gases
- 2816 Inorganic pigments
- 2819 Industrial inorganic chemicals, n.e.c.

**28B Plastics Materials, Synthetic Rubber, and Manmade
Fibers**

- 2821 Plastics materials and resins
- 2822 Synthetic rubber
- 2823 Cellulosic manmade fibers
- 2824 Organic fibers, noncellulosic

28C Drugs

- 2831 Biological products
- 2833 Medicinals and botanicals
- 2834 Pharmaceutical preparations

28D Soap, Cleaners, and Toilet Goods

- 2841 Soap and other detergents
- 2842 Polishes and sanitation goods
- 2843 Surface active agents
- 2844 Toilet preparations

28E Paints and Allied Products

- 2851 Paints and allied products

28F Industrial Organic Chemicals

- 2861 Gum and wood chemicals
- 2865 Cyclic crudes and intermediates
- 2869 Industrial organic chemicals, n.e.c.

28G Agricultural Chemicals

- 2873 Nitrogenous fertilizers
- 2874 Phosphatic fertilizers
- 2875 Fertilizers, mixing only
- 2879 Agricultural chemicals, n.e.c.

28H Miscellaneous Chemical Products

- 2891 Adhesives and sealants
- 2892 Explosives
- 2893 Printing ink
- 2895 Carbon black
- 2899 Chemical preparations, n.e.c.

Major Group 29—PETROLEUM AND COAL PRODUCTS

29A Petroleum and Coal Products

- 2911 Petroleum refining
- 2951 Paving mixtures and blocks
- 2952 Asphalt felts and coatings
- 2992 Lubricating oils and greases
- 2999 Petroleum and coal products, n.e.c.

Major Group 30—RUBBER AND PLASTICS PRODUCTS

30A Rubber and Miscellaneous Plastics Products

- 3011 Tires and inner tubes
- 3021 Rubber and plastics footwear
- 3031 Reclaimed rubber
- 3041 Rubber and plastics hose and belting
- 3069 Fabricated rubber products, n.e.c.
- 3079 Miscellaneous plastics products

Major Group 31—LEATHER AND LEATHER PRODUCTS

31A Tanning; Industrial Leather Goods; and Shoes

- 3111 Leather tanning and finishing
- 3131 Boot and shoe cut stock and findings
- 3142 House slippers
- 3143 Men's footwear, except athletic
- 3144 Women's footwear, except athletic
- 3149 Footwear, except rubber, n.e.c.

31B Leather Gloves; Luggage; and Miscellaneous Leather Goods

- 3151 Leather gloves and mittens
- 3161 Luggage
- 3171 Women's handbags and purses
- 3172 Personal leather goods
- 3199 Leather goods, n.e.c.

Major Group 32—STONE, CLAY, AND GLASS PRODUCTS

32A Glass Products

- 3211 Flat glass
- 3221 Glass containers
- 3229 Pressed and blown glass, n.e.c.
- 3231 Products of purchased glass

32B Cement and Structural Clay Products

- 3241 Cement, hydraulic
- 3251 Brick and structural clay tile
- 3253 Ceramic wall and floor tile
- 3255 Clay refractories
- 3259 Structural clay products, n.e.c.

32C Pottery and Related Products

- 3261 Vitreous plumbing fixtures
- 3262 Vitreous china food utensils
- 3263 Fine earthenware food utensils
- 3264 Porcelain electrical supplies
- 3269 Pottery products, n.e.c.

32D Concrete, Plaster, and Cut-Stone Products

- 3271 Concrete block and brick
- 3272 Concrete products, n.e.c.
- 3273 Ready-mixed concrete
- 3274 Lime
- 3275 Gypsum products
- 3281 Cut stone and stone products

32E Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products

- 3291 Abrasive products
- 3292 Asbestos products
- 3293 Gaskets, packing and sealing devices
- 3295 Minerals, ground or treated
- 3296 Mineral wool
- 3297 Nonclay refractories
- 3299 Nonmetallic mineral products, n.e.c.

Major Group 33—PRIMARY METAL INDUSTRIES

33A Blast Furnaces, Steel Works, and Rolling and Finishing Mills

- 3312 Blast furnaces and steel mills
- 3313 Electrometallurgical products
- 3315 Steel wire and related products
- 3316 Cold finishing of steel shapes
- 3317 Steel pipe and tubes

33B Ferrous and Nonferrous Foundries

- 3321 Gray iron foundries
- 3322 Malleable iron foundries
- 3324 Steel investment foundries
- 3325 Steel foundries, n.e.c.
- 3361 Aluminum foundries
- 3362 Brass, bronze, and copper foundries
- 3369 Nonferrous foundries, n.e.c.

33C Smelting and Refining of Nonferrous Metals and Alloys

- 3331 Primary copper
- 3332 Primary lead
- 3333 Primary zinc
- 3334 Primary aluminum
- 3339 Primary nonferrous metals, n.e.c.
- 3341 Secondary nonferrous metals

33D Nonferrous Metal Mills and Miscellaneous Primary Metal Products

- 3351 Copper rolling and drawing
- 3353 Aluminum sheet, plate, and foil
- 3354 Aluminum extruded products
- 3355 Aluminum rolling and drawing, n.e.c.
- 3356 Nonferrous rolling and drawing, n.e.c.
- 3357 Nonferrous wiredrawing and insulating
- 3398 Metal heat treating
- 3399 Primary metal products, n.e.c.

PART 3

Major Group 34—FABRICATED METAL PRODUCTS

34A Metal Cans, Cutlery, Handtools, and General Hardware

- 3411 Metal cans
- 3412 Metal barrels, drums, and pails
- 3421 Cutlery
- 3423 Hand and edge tools, n.e.c.
- 3425 Handsaws and saw blades
- 3429 Hardware, n.e.c.

34B Heating Apparatus, Except Electric and Warm Air Furnaces, and Plumbing Fixtures

- 3431 Metal sanitary ware
- 3432 Plumbing fittings and brass goods
- 3433 Heating equipment, except electric

34C Fabricated Structural Metal Products

- 3441 Fabricated structural metal products
- 3442 Metal doors, sash, and trim
- 3443 Fabricated platework (boiler shops)
- 3444 Sheet metalwork
- 3446 Architectural metalwork
- 3448 Prefabricated metal buildings
- 3449 Miscellaneous metalwork

34D Screw Machine Products, Fasteners and Washers; Metal Forgings and Stampings; and Metal Services

- 3451 Screw machine products
- 3452 Bolts, nuts, rivets, and washers
- 3462 Iron and steel forgings
- 3463 Nonferrous forgings
- 3465 Automotive stampings
- 3466 Crowns and closures
- 3469 Metal stampings, n.e.c.
- 3471 Plating and polishing
- 3479 Metal coating and allied services

34E Ordnance and Accessories, N.E.C.

- 3482 Small arms ammunition
- 3483 Ammunition, except for small arms, n.e.c.
- 3484 Small arms
- 3489 Ordnance and accessories, n.e.c.

34F Miscellaneous Fabricated Metal Products

- 3493 Steel springs, except wire
- 3494 Valves and pipe fittings
- 3495 Wire springs
- 3496 Miscellaneous fabricated wire products
- 3497 Metal foil and leaf
- 3498 Fabricated pipe and fittings
- 3499 Fabricated metal products, n.e.c.

Major Group 35—MACHINERY, EXCEPT ELECTRICAL

35A Engines and Turbines and Farm Machinery and Equipment

- 3511 Turbines and turbine generator sets
- 3519 Internal combustion engines, n.e.c.
- 3523 Farm machinery and equipment
- 3524 Lawn and garden equipment

35B Construction, Mining, and Materials Handling Machinery and Equipment

- 3531 Construction machinery
- 3532 Mining machinery
- 3533 Oilfield machinery
- 3534 Elevators and moving stairways
- 3535 Conveyors and conveying equipment
- 3536 Hoists, cranes, and monorails
- 3537 Industrial trucks and tractors

35C Metalworking Machinery and Equipment

- 3541 Machine tools, metal-cutting types
- 3542 Machine tools, metal-forming types
- 3544 Special dies, tools, jigs, and fixtures
- 3545 Machine tool accessories
- 3546 Power-driven handtools
- 3547 Rolling mill machinery
- 3549 Metalworking machinery, n.e.c.

35D Special Industry Machinery, Except Metalworking Machinery

- 3551 Food products machinery
- 3552 Textile machinery
- 3553 Woodworking machinery
- 3554 Paper industries machinery
- 3555 Printing trades machinery
- 3559 Special industry machinery, n.e.c.

35E General Industrial Machinery and Equipment

- 3561 Pumps and pumping equipment
- 3562 Ball and roller bearings
- 3563 Air and gas compressors
- 3564 Blowers and fans
- 3565 Industrial patterns
- 3566 Speed changers, drives, and gears
- 3567 Industrial furnances and ovens
- 3568 Power transmission equipment, n.e.c.
- 3569 General industrial machinery, n.e.c.

- 35F Office, Computing, and Accounting Machines**
 3572 Typewriters
 3573 Electronic computing equipment
 3574 Calculating and accounting machines
 3576 Scales and balances, except laboratory
 3579 Office machines, n.e.c.

- 35G Service Industry Machines and Machine Shops**
 3581 Automatic merchandising machines
 3582 Commercial laundry equipment
 3585 Refrigeration and heating equipment
 3586 Measuring and dispensing pumps
 3589 Service industry machinery, n.e.c.
 3592 Carburetors, pistons, rings, valves
 3599 Machinery, except electrical, n.e.c.

Major Group 36—ELECTRIC AND ELECTRONIC EQUIPMENT

- 36A Electrical Measurement and Distribution Equipment**
 3612 Transformers
 3613 Switchgear and switchboard apparatus
 3621 Motors and generators
 3622 Industrial controls
 3623 Welding apparatus, electric
 3624 Carbon and graphite products
 3629 Electrical industrial apparatus, n.e.c.

- 36B Household Appliances**
 3631 Household cooking equipment
 3632 Household refrigerators and freezers
 3633 Household laundry equipment
 3634 Electric housewares and fans
 3635 Household vacuum cleaners
 3636 Sewing machines
 3639 Household appliances, n.e.c.

- 36C Electric Lighting and Wiring Equipment**
 3641 Electric lamps
 3643 Current-carrying wiring devices
 3644 Noncurrent-carrying wiring devices
 3645 Residential lighting fixtures
 3646 Commercial lighting fixtures
 3647 Vehicular lighting equipment
 3648 Lighting equipment, n.e.c.

- 36D Communication Equipment, Including Radio and TV, and Electronic Components and Accessories**
 3651 Radio and TV receiving sets
 3652 Phonograph records and prerecorded magnetic tapes
 3661 Telephone and telegraph apparatus
 3662 Radio and TV communication equipment
 3671 Electron tubes, receiving type
 3672 Cathode ray television picture tubes

- 36D— Communication Equipment, Including Radio and TV, and Electronic Components and Accessories**
 3673 Electron tubes, transmitting
 3674 Semiconductors and related devices
 3675 Electronic capacitors
 3676 Electronic resistors
 3677 Electronic coils and transformers
 3678 Electronic connectors
 3679 Electronic components, n.e.c.

- 36E Miscellaneous Electrical Equipment and Supplies**
 3691 Storage batteries
 3692 Primary batteries, dry and wet
 3693 X-ray apparatus and tubes
 3694 Engine electrical equipment
 3699 Electrical equipment and supplies, n.e.c.

Major Group 37—TRANSPORTATION EQUIPMENT

- 37A Motor Vehicles and Equipment**
 3711 Motor vehicles and car bodies
 3713 Truck and bus bodies
 3714 Motor vehicle parts and accessories
 3715 Truck trailers

- 37B Aerospace Equipment Including Parts**
 3721 Aircraft
 3724 Aircraft engines and engine parts
 3728 Aircraft equipment, n.e.c.
 3761 Guided missiles and space vehicles
 3764 Space propulsion units and parts
 3769 Space vehicle equipment, n.e.c.

- 37C Ship and Boat Building, Railroad and Miscellaneous Transportation Equipment**
 3731 Ship building and repairing
 3732 Boat building and repairing
 3743 Railroad equipment
 3751 Motorcycles, bicycles, and parts
 3792 Travel trailers and campers
 3795 Tanks and tank components
 3799 Transportation equipment, n.e.c.

Major Group 38—INSTRUMENTS AND RELATED PRODUCTS

- 38A Engineering, Measuring and Controlling, and Optical Instruments**
 3811 Engineering and scientific instruments
 3822 Environmental controls
 3823 Process control instruments
 3824 Fluid meters and counting devices
 3825 Instruments to measure electricity
 3829 Measuring and controlling devices, n.e.c.
 3832 Optical instruments and lenses

INDUSTRY DESCRIPTIONS—Continued

38B Medical Instruments; Ophthalmic Goods; Photographic Equipment; Clocks, Watches, and Watchcases

- 3841 Surgical and medical instruments
- 3842 Surgical appliances and supplies
- 3843 Dental equipment and supplies
- 3851 Ophthalmic goods
- 3861 Photographic equipment and supplies
- 3873 Watches, clocks, and watchcases

Major Group 39—MISCELLANEOUS MANUFACTURING INDUSTRIES

39A Jewelry, Silverware, and Plated Ware

- 3911 Jewelry, precious metal
- 3914 Silverware and plated ware
- 3915 Jewelers' materials and lapidary work

39B Musical Instruments and Parts; Toys and Sporting Goods

- 3931 Musical instruments
- 3942 Dolls

39B— Musical Instruments and Parts; Toys and Sporting Con. Goods

- 3944 Games, toys, and children's vehicles
- 3949 Sporting and athletic goods, n.e.c.

39C Office Supplies, Costume Jewelry, and Notions

- 3951 Pens and mechanical pencils
- 3952 Lead pencils and art goods
- 3953 Marking devices
- 3955 Carbon paper and inked ribbons
- 3961 Costume jewelry
- 3962 Artificial flowers
- 3963 Buttons
- 3964 Needles, pins, and fasteners

39D Miscellaneous Manufactures

- 3991 Brooms and brushes
- 3993 Signs and advertising displays
- 3995 Burial caskets
- 3996 Hard-surface floor coverings
- 3999 Manufacturing industries, n.e.c.

MAJOR GROUP 27

Printing and Publishing

- 27A Newspapers, periodicals, books, and miscellaneous publishing
- 27B Commercial printing and manifold business forms
- 27C Greeting cards; bookbinding; printing trade services

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing. News syndicates are classified in Service Industries (industry 7351), and textile printing and finishing in Major Group 22.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees ¹		Production workers			Value added by manufacture ²	Cost of materials ³	Value of industry shipments ³	Capital expenditures, new ⁴
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: ⁵											
1972.....	42,573	8,816	1,085.5	10,162.1	637.6	1,181.1	5,462.6	20,209.5	10,044.3	30,146.4	1,047.7
1967.....	38,282	8,136	1,052.1	7,323.5	631.6	1,196.1	4,011.3	14,355.1	7,518.5	21,738.4	788.1
1963.....	38,594	7,323	925.1	5,611.5	559.8	1,083.2	3,191.0	10,476.4	5,777.3	16,165.7	463.9
1958.....	35,636	6,933	871.7	4,533.9	530.6	997.8	2,595.7	7,973.2	(NA)	12,589.0	421.5
1954.....	(NA)	(NA)	808.9	3,650.8	499.2	960.5	2,112.2	6,403.1	(NA)	(NA)	236.9
Administrative and auxiliary units:											
1972 ⁶	470	197	29.0	330.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 ⁶	293	101	21.1	172.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 ⁶	304	108	11.4	96.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 ⁶	179	74	7.1	44.6	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 ⁶	(NA)	(NA)	5.5	31.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	42,103	8,619	1,056.5	9,831.2	637.6	1,181.1	5,462.6	20,209.5	10,044.3	30,146.4	1,047.7
1967.....	37,989	8,035	1,031.0	7,151.5	631.6	1,196.1	4,011.3	14,355.1	7,518.5	21,738.4	788.1
1963.....	38,090	7,215	913.2	5,514.8	559.8	1,083.2	3,191.0	10,476.4	5,777.3	16,165.7	463.9
1958.....	35,457	6,859	864.6	4,489.2	530.6	997.8	2,595.7	7,973.2	(NA)	12,589.0	421.5
1954.....	32,530	6,054	803.5	3,619.5	499.2	960.5	2,112.2	6,403.1	(NA)	(NA)	236.9
Operating manufacturing establishments:											
1971 ⁷	(X)	(X)	1,049.1	8,975.9	626.3	1,192.0	5,010.1	18,086.4	8,861.4	26,887.3	941.9
1970 ⁷	(X)	(X)	1,077.2	8,682.2	652.9	1,265.1	4,903.3	17,232.4	8,557.1	25,756.5	872.8
1969 ⁷	(X)	(X)	1,090.7	8,337.7	666.5	1,261.6	4,701.8	16,793.4	8,540.9	25,332.7	853.3
1968 ⁷	(X)	(X)	1,040.0	7,627.0	635.9	1,204.1	4,279.7	15,328.7	7,907.1	23,190.4	756.7
1966 ⁷	(NA)	(NA)	1,017.6	6,751.0	619.1	1,208.7	3,831.5	13,264.5	7,114.9	20,201.7	708.5
1965 ⁷	(NA)	(NA)	982.4	6,269.2	597.3	1,156.3	3,574.9	12,098.8	6,599.6	18,620.3	542.7
1964 ⁷	(NA)	(NA)	935.0	5,847.6	569.7	1,123.6	3,349.5	11,192.1	6,185.5	17,337.1	464.5
1962 ⁷	(NA)	(NA)	921.8	5,411.2	565.9	1,084.2	3,101.1	9,997.5	5,707.0	15,616.0	436.0
1961 ⁷	(NA)	(NA)	912.9	5,200.6	558.6	1,075.2	2,982.6	9,551.3	5,516.2	14,972.4	414.1
1960 ⁷	(NA)	(NA)	907.3	5,065.3	560.4	1,082.3	2,935.0	9,341.6	(NA)	(NA)	419.6
1959 ⁷	(NA)	(NA)	884.7	4,811.7	552.5	1,053.5	2,798.9	8,788.3	(NA)	(NA)	402.9
1957 ⁷	(NA)	(NA)	866.6	4,294.8	533.2	1,019.2	2,466.0	7,912.5	(NA)	(NA)	326.9
1956 ⁷	(NA)	(NA)	853.1	4,118.2	526.8	1,017.1	2,385.8	7,546.7	(NA)	(NA)	289.3
1955 ⁷	(NA)	(NA)	822.6	3,837.0	507.4	985.3	2,224.9	6,937.5	(NA)	(NA)	254.1
1953 ⁷	(NA)	(NA)	760.3	3,386.5	474.0	924.4	2,013.9	5,916.4	(NA)	(NA)	195.1
1952 ⁷	30,147	(NA)	772.8	3,267.4	471.3	999.2	1,908.7	5,660.1	(NA)	(NA)	188.8
1951 ⁷	29,704	(NA)	765.3	3,068.3	473.8	990.8	1,791.4	5,288.5	(NA)	(NA)	243.8
1950 ⁷	29,427	(NA)	762.7	2,908.9	471.7	1,019.0	1,702.3	4,906.8	(NA)	(NA)	244.4
1949 ⁷	(NA)	(NA)	756.2	2,744.0	461.5	993.9	1,569.1	4,658.9	(NA)	(NA)	254.1
1947.....	29,078	(NA)	715.1	2,276.3	437.9	888.3	1,317.6	4,248.8	(NA)	(NA)	226.4
1939 ⁹	24,778	(NA)	552.3	977.5	324.4	(NA)	493.4	1,765.3	(NA)	(NA)	(NA)
1937 ¹⁰	22,674	(NA)	555.0	951.4	351.0	(NA)	530.2	1,785.0	(NA)	(NA)	(NA)
1935.....	22,505	(NA)	472.5	791.7	302.6	(NA)	443.9	1,546.6	(NA)	(NA)	(NA)
1933 ¹¹	19,216	(NA)	398.7	579.2	261.9	(NA)	353.2	1,245.3	(NA)	(NA)	(NA)
1931.....	24,664	(NA)	(NA)	(NA)	314.9	(NA)	535.1	1,768.0	(NA)	(NA)	(NA)
1929.....	27,364	(NA)	566.4	1,138.5	358.4	(NA)	636.4	2,233.2	(NA)	(NA)	(NA)
1927.....	25,375	(NA)	523.9	1,027.2	331.4	(NA)	589.2	1,936.1	(NA)	(NA)	(NA)
1925.....	23,646	(NA)	496.7	924.2	317.2	(NA)	544.2	1,757.1	(NA)	(NA)	(NA)
1923.....	22,897	(NA)	480.6	837.8	309.8	(NA)	494.4	1,527.1	(NA)	(NA)	(NA)
1921.....	22,559	(NA)	428.1	717.6	283.8	(NA)	435.7	1,305.8	(NA)	(NA)	(NA)
1919.....	33,262	(NA)	448.1	594.0	303.6	(NA)	352.3	1,091.0	(NA)	(NA)	(NA)
1914.....	34,241	(NA)	406.4	339.8	285.7	(NA)	207.0	626.9	(NA)	(NA)	(NA)
1909.....	32,137	(NA)	373.5	280.9	270.1	(NA)	173.5	518.9	(NA)	(NA)	(NA)
1904.....	28,369	(NA)	299.4	203.4	228.4	(NA)	133.4	423.9	(NA)	(NA)	(NA)
1899.....	24,363	(NA)	244.0	144.2	202.3	(NA)	103.8	299.7	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.²For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.³The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.⁴The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.⁵See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.⁶Similar data are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these establishments are not available for the years 1955 to 1957, 1959 to 1962 or prior to 1949.⁷These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.⁸The establishments classified in the printing and publishing industries reported inventories for the first time in 1957. Therefore, the adjusted value added figures are not precisely comparable, in that the adjusted value added figure does not include the inventories adjustment.⁹The figures for 1899 to 1939 include data for establishments primarily engaged in the manufacture of tags, which are classified in 1947 to 1954 in the pulp, paper and allied products industries.¹⁰The figures for 1899 to 1937 include data for establishments primarily engaged in the manufacture of paper patterns, which are included for later years in the series for the pulp, paper and products industries.¹¹Establishments engaged solely in music publishing were not canvassed in 1933.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
27	PRINTING AND PUBLISHING,	42 103	8 619	1 056.5	9 831.2	637.6	1 181.1	5 462.6	20 209.5	10 044.3	30 146.4	1 047.7	1 031.0	14 355.1
	NORTHEAST REGION	12 522	2 812	354.6	3 503.9	203.9	376.0	1 826.3	7 529.5	3 759.5	11 244.4	316.1	373.7	5 813.3
	NEW ENGLAND DIVISION	2 711	662	78.7	705.3	49.1	93.0	408.1	1 371.8	657.0	2 024.4	65.5	77.3	974.5
	MAINE	152	27	2.8	21.2	1.7	3.1	11.7	40.9	15.8	56.7	2.3	2.4	26.7
	NEW HAMPSHIRE	167	42	4.7	37.0	3.2	6.0	22.1	68.5	35.2	103.6	3.9	3.8	35.5
	VERMONT	118	32	3.6	28.5	2.6	5.1	19.5	58.2	23.7	81.6	2.9	3.3	34.3
	MASSACHUSETTS	1 392	338	42.6	387.1	26.5	49.7	222.8	750.0	333.8	1 081.5	35.5	44.7	539.9
	RHODE ISLAND	195	39	5.4	52.5	3.7	7.0	32.7	101.7	46.0	149.0	3.9	4.4	53.1
	CONNECTICUT	687	184	19.6	174.9	11.5	22.1	99.2	352.5	202.4	552.1	17.0	18.6	232.7
	MIDDLE ATLANTIC DIVISION	9 811	2 150	275.9	2 758.6	154.8	283.0	1 418.3	6 157.7	3 102.5	9 220.0	250.7	297.8	4 745.8
	NEW YORK	6 110	1 237	164.9	1 786.2	84.3	154.8	820.7	4 222.7	2 107.7	6 298.0	149.4	188.3	3 349.4
	NEW JERSEY	1 644	380	42.0	388.0	24.6	44.6	210.6	754.8	358.5	1 111.9	32.1	40.8	520.4
	PENNSYLVANIA	2 057	533	69.1	624.4	45.9	83.5	387.0	1 180.1	636.2	1 610.2	69.1	68.6	876.0
	NORTH CENTRAL REGION	12 227	2 721	345.7	3 283.0	215.0	404.3	1 919.3	6 548.9	3 361.2	9 865.6	369.0	345.8	4 656.8
	EAST NORTH CENTRAL DIVISION	8 310	1 966	255.1	2 482.5	161.0	303.1	1 476.8	4 963.4	2 526.2	7 488.6	241.8	259.0	1 275.9
	OHIO	1 918	490	63.2	597.6	40.0	76.1	360.0	1 200.9	587.0	1 775.6	47.6	67.1	874.6
	INDIANA	911	204	26.9	236.0	17.4	32.8	147.8	447.5	210.6	658.1	25.1	26.9	327.1
	ILLINOIS	3 021	787	105.1	1 081.6	66.3	124.7	633.4	2 217.7	1 157.1	3 372.0	91.4	107.0	1 600.9
	MICHIGAN	1 489	278	34.8	345.0	21.6	39.7	197.7	696.2	315.3	1 009.2	48.2	33.5	464.0
	WISCONSIN	971	207	25.1	222.2	15.8	29.8	137.6	421.0	256.2	673.8	29.4	24.4	292.9
	WEST NORTH CENTRAL DIVISION	3 917	755	90.6	808.6	54.1	101.2	442.5	1 565.5	835.0	2 376.8	127.2	87.0	1 089.8
	MINNESOTA	895	188	21.9	214.9	13.9	25.3	122.8	402.2	196.3	596.0	22.8	23.6	278.1
	IOWA	700	120	13.6	112.3	7.6	14.2	58.5	227.6	166.8	392.6	14.6	12.5	173.4
	MISSOURI	1 149	235	34.1	314.5	18.3	34.9	161.4	646.5	326.9	954.4	68.4	32.2	436.7
	NORTH DAKOTA	116	22	1.5	10.6	1.0	1.7	6.3	20.0	6.2	26.2	1.4	1.5	14.6
	SOUTH DAKOTA	168	17	1.6	10.9	1.0	1.8	6.0	22.9	7.1	30.0	2.4	1.6	15.8
	NEBRASKA	355	63	6.0	49.3	3.8	7.4	28.3	92.8	49.9	143.9	5.7	5.4	59.6
	KANSAS	534	110	11.8	84.0	8.3	15.8	59.4	153.6	61.7	233.8	11.4	10.1	111.6
	SOUTH REGION	10 185	1 870	219.7	1 900.2	136.5	255.3	1 017.2	3 608.1	1 750.8	5 343.6	219.0	188.1	2 220.9
	SOUTH ATLANTIC DIVISION	5 072	993	116.0	995.0	70.0	130.1	542.3	1 963.4	952.5	2 907.2	110.3	98.9	1 212.1
	DELAWARE	73	13	1.6	15.9	1.0	1.9	9.4	26.0	9.9	35.9	1.3	1.5	18.7
	MARYLAND	611	161	20.6	185.8	12.7	23.3	106.8	345.2	189.8	530.8	16.1	16.7	204.9
	DISTRICT OF COLUMBIA	341	77	13.7	160.3	6.2	10.6	69.3	293.0	148.3	439.2	16.0	14.6	229.0
	VIRGINIA	621	134	15.7	120.6	9.7	18.0	67.0	228.3	116.9	344.3	12.5	12.7	134.4
	WEST VIRGINIA	187	34	4.1	30.7	2.6	5.1	18.3	71.8	33.6	105.5	3.0	4.0	67.4
	NORTH CAROLINA	705	153	13.8	102.4	9.2	17.1	59.0	205.4	99.5	304.1	11.2	12.3	126.1
	SOUTH CAROLINA	286	51	5.1	37.4	3.0	5.6	19.3	79.3	28.6	107.8	5.6	3.9	42.9
	GEORGIA	745	143	14.7	127.2	10.0	19.3	80.3	248.6	131.4	380.0	12.8	12.7	153.7
	FLORIDA	1 501	227	26.6	214.7	15.6	29.2	113.0	466.4	194.6	659.6	31.9	20.3	224.9
	EAST SOUTH CENTRAL DIVISION	1 760	320	41.4	327.5	27.1	51.3	196.1	619.9	317.0	933.0	38.7	36.8	407.3
	KENTUCKY	415	86	11.6	97.4	8.3	15.5	62.4	175.4	85.0	258.8	11.7	10.5	113.6
	TENNESSEE	718	136	19.4	156.6	12.3	23.8	91.2	274.4	153.7	426.1	16.8	17.5	186.1
	ALABAMA	392	63	7.2	54.0	4.5	8.4	32.0	128.9	62.0	190.6	6.1	6.3	82.8
	MISSISSIPPI	235	35	3.2	19.4	2.0	3.6	10.5	41.2	16.3	57.5	4.2	2.5	24.8
	WEST SOUTH CENTRAL DIVISION	3 353	557	62.3	477.8	39.4	74.0	278.8	1 024.9	481.2	1 503.5	70.0	52.4	607.5
	ARKANSAS	271	55	6.1	43.8	4.3	8.3	27.8	117.4	44.4	162.9	10.5	5.9	69.7
	LOUISIANA	467	70	7.4	55.8	4.7	8.7	32.7	121.2	55.8	177.8	4.8	5.8	73.5
	OKLAHOMA	513	73	8.2	62.3	5.0	9.2	33.8	131.0	60.7	190.8	11.0	7.0	80.2
	TEXAS	2 102	359	40.6	315.9	25.4	47.7	184.4	655.3	320.3	972.1	43.7	33.7	384.1
	WEST REGION	7 169	1 216	136.5	1 244.1	82.1	145.6	699.8	2 523.0	1 172.9	3 692.8	143.6	123.5	1 658.2
	MOUNTAIN DIVISION	1 512	254	28.1	228.2	17.0	31.3	131.5	464.2	198.5	660.7	35.6	22.4	254.4
	MONTANA	111	19	1.5	11.7	.9	1.5	6.6	25.1	7.3	32.3	1.5	1.5	16.4
	IDAHO	116	16	1.6	11.9	.9	1.6	6.5	23.2	7.5	30.7	2.3	1.5	15.6
	WYOMING	64	13	.8	5.6	.5	.8	3.2	10.8	3.0	13.8	1.0	.7	6.3
	COLORADO	494	82	10.6	91.8	6.4	12.2	52.6	181.9	68.8	250.2	12.1	8.3	97.9
	NEW MEXICO	146	24	1.9	14.0	1.0	1.8	6.9	31.6	10.3	41.5	4.9	1.5	16.8
	ARIZONA	310	57	6.4	52.5	3.8	6.9	30.6	115.6	48.2	163.6	8.5	4.6	55.2
	UTAH	182	29	3.7	28.6	2.4	4.3	17.1	48.0	43.5	90.9	3.9	2.9	34.7
	NEVADA	89	14	1.5	12.1	1.1	2.1	7.9	28.1	9.7	37.2	1.5	1.3	16.3
	PACIFIC DIVISION	5 657	962	108.4	1 015.9	65.1	114.3	568.3	2 058.9	974.4	3 032.1	106.0	100.9	1 396.5
	WASHINGTON	554	83	10.6	96.4	6.0	9.6	52.0	176.0	66.2	241.0	11.6	9.8	120.3
	OREGON	403	69	6.7	56.3	3.8	6.6	30.9	120.2	53.1	173.0	6.5	5.8	75.6
	CALIFORNIA	4 535	783	88.0	934.9	53.7	95.3	471.3	1 706.9	834.7	2 541.8	80.7	82.7	1 167.2
	ALASKA	48	6	.6	5.4	.3	.5	2.7	9.6	3.1	12.7	.3	.5	6.4
	HAWAII	117	21	2.5	22.8	1.3	2.2	11.4	46.2	17.3	63.6	8.9	2.0	27.0
271	NEWSPAPERS	8 116	2 119	348.5	3 168.1	169.7	296.4	1 536.8	6 219.9	2 043.5	8 262.8	359.5	(NA)	(NA)
	NORTHEAST REGION	1 424	477	92.8	939.8	46.1	79.8	474.0	1 715.0	551.3	2 266.3	74.5	93.0	1 172.3
	NEW ENGLAND DIVISION	409	163	25.6	231.8	12.2	22.2	111.3	440.7	119.3	560.1	18.2	(NA)	(NA)
	MAINE													

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials ²	Value of shipments ²	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
271	NEWSPAPERS--CONTINUED													
	NORTH CENTRAL REGION--CONTINUED													
	WEST NORTH CENTRAL DIVISION.	1 442	227	29.4	244.6	15.3	27.2	124.6	484.9	147.1	632.1	36.5	(NA)	(NA)
	MINNESOTA.	276	37	6.9	63.4	3.2	5.4	29.1	120.3	36.6	156.9	4.2	(NA)	(NA)
	IOWA.	209	48	5.6	41.4	2.8	4.8	20.0	85.7	20.8	106.5	9.0	(NA)	(NA)
	MISSOURI.	299	55	6.2	75.3	4.5	8.4	43.2	151.6	55.4	207.0	13.3	(NA)	(NA)
	NORTH DAKOTA.	71	10	1.0	7.5	.6	1.0	4.2	14.8	3.1	17.9	1.5	(NA)	(NA)
	SOUTH DAKOTA.	114	11	1.1	7.1	.7	1.2	3.9	16.0	3.6	19.6	1.8	(NA)	(NA)
	NEBRASKA.	161	25	3.0	21.6	1.7	3.0	11.1	47.2	14.5	61.7	3.3	(NA)	(NA)
	KANSAS.	222	41	3.6	25.2	1.9	3.3	13.2	49.4	13.1	62.5	3.5	(NA)	(NA)
	SOUTH REGION.	2 497	574	93.5	755.6	45.4	82.0	347.1	1 575.7	540.0	2 115.6	105.0	62.9	963.4
	SOUTH ATLANTIC DIVISION.	986	268	49.4	423.1	23.2	42.2	188.4	855.1	290.4	1 145.6	54.1	(NA)	(NA)
	DELAWARE.	13	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MARYLAND.	76	23	5.2	47.2	2.5	4.4	20.8	87.0	28.6	115.6	1.4	(NA)	(NA)
	DISTRICT OF COLUMBIA.	19	3	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	VIRGINIA.	122	43	6.4	48.8	2.9	5.4	19.8	93.7	28.9	122.6	6.9	(NA)	(NA)
	WEST VIRGINIA.	85	17	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NORTH CAROLINA.	170	58	6.7	50.3	3.5	6.4	23.5	106.3	30.2	136.5	5.3	(NA)	(NA)
	SOUTH CAROLINA.	86	19	2.6	16.7	1.2	2.1	7.5	43.0	11.9	54.9	3.4	(NA)	(NA)
	GEORGIA.	171	34	5.4	44.2	2.7	5.3	23.0	102.1	36.8	138.9	5.6	(NA)	(NA)
	FLORIDA.	242	66	14.0	114.3	5.9	10.9	45.4	267.1	92.4	359.5	19.8	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION.	534	111	15.3	118.0	7.8	14.0	54.1	245.1	82.5	327.2	15.0	(NA)	(NA)
	KENTUCKY.	157	28	3.6	36.0	1.8	3.3	12.5	61.1	23.0	84.1	2.7	(NA)	(NA)
	TENNESSEE.	149	34	6.1	48.3	3.1	5.5	23.0	90.8	32.2	122.7	6.2	(NA)	(NA)
	ALABAMA.	123	26	3.4	26.8	1.7	3.0	12.5	64.2	18.6	82.8	3.1	(NA)	(NA)
	MISSISSIPPI.	105	23	2.1	12.9	1.2	2.1	6.1	29.1	8.6	37.7	3.0	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION.	977	195	28.8	214.4	14.4	25.9	104.6	475.5	167.1	642.7	36.0	(NA)	(NA)
	ARKANSAS.	113	26	2.4	16.8	1.4	2.7	8.4	35.6	10.4	46.0	6.4	(NA)	(NA)
	LOUISIANA.	136	26	4.2	31.4	2.1	3.9	16.3	73.1	26.4	96.5	2.0	(NA)	(NA)
	OKLAHOMA.	189	37	4.5	32.4	2.3	4.0	14.9	68.0	22.1	90.0	7.0	(NA)	(NA)
	TEXAS.	537	106	17.6	133.8	8.5	15.4	65.0	298.9	108.3	407.2	20.5	(NA)	(NA)
	WEST REGION.	1 265	395	60.1	547.6	27.7	46.9	255.6	1 121.5	395.5	1 517.0	72.5	61.8	621.5
	MOUNTAIN DIVISION.	443	111	14.7	119.1	7.3	13.2	60.2	257.2	94.0	351.0	22.8	(NA)	(NA)
	MONTANA.	63	11	1.1	8.3	.6	1.0	4.3	18.0	4.1	22.1	1.1	(NA)	(NA)
	IDAHO.	57	12	1.2	8.5	.6	1.0	4.4	17.8	4.3	22.1	1.9	(NA)	(NA)
	WYOMING.	38	9	.3	3.9	.3	.6	2.1	8.5	1.5	10.0	.9	(NA)	(NA)
	COLORADO.	112	26	4.9	44.7	2.5	4.9	23.7	80.1	27.8	108.1	5.8	(NA)	(NA)
	NEW MEXICO.	69	16	1.3	9.6	.6	1.0	4.2	23.2	5.6	28.8	4.4	(NA)	(NA)
	ARIZONA.	60	21	3.5	27.8	1.5	2.6	13.2	70.7	23.0	94.3	6.2	(NA)	(NA)
	UTAH.	38	8	1.1	6.4	.5	.9	3.5	20.2	21.9	41.7	2.0	(NA)	(NA)
	NEVADA.	30	8	1.0	7.8	.7	1.3	4.9	18.6	5.3	23.9	.6	(NA)	(NA)
	PACIFIC DIVISION.	822	284	45.3	428.5	20.4	33.6	195.4	864.3	301.5	1 165.9	49.7	(NA)	(NA)
	WASHINGTON.	159	33	6.5	62.4	3.0	4.7	29.8	110.2	33.8	144.0	9.2	(NA)	(NA)
	OREGON.	102	28	3.6	29.5	1.6	2.7	12.2	62.4	21.1	83.5	3.5	(NA)	(NA)
	CALIFORNIA.	523	204	33.3	318.5	15.0	24.9	145.8	654.7	237.0	891.8	29.6	(NA)	(NA)
	ALASKA.	19	5	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	HAWAII.	19	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
272	PERIODICALS.	2 534	452	66.5	708.5	11.1	21.1	84.6	2 109.9	1 404.2	3 510.6	56.6	(NA)	(NA)
	NORTHEAST REGION.	912	185	34.0	401.8	3.8	7.3	32.6	1 322.2	890.0	2 214.6	35.0	45.9	1 241.9
	NEW ENGLAND DIVISION.	173	28	2.9	28.9	.5	.9	3.4	78.3	87.1	164.4	1.0	(NA)	(NA)
	NEW HAMPSHIRE.	9	3	.2	1.4	.1	.2	.3	4.6	5.7	10.2	(2)	(NA)	(NA)
	MASSACHUSETTS.	91	10	.8	7.9	.2	.3	1.3	18.2	9.0	27.2	.2	(NA)	(NA)
	CONNECTICUT.	56	14	1.8	18.6	.2	.3	1.5	53.2	71.3	123.6	.5	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION.	739	157	31.1	372.9	3.3	6.4	29.2	1 243.9	803.0	2 050.3	34.1	(NA)	(NA)
	NEW YORK.	558	122	26.0	326.6	1.9	4.1	18.0	1 069.4	678.9	1 751.6	30.8	(NA)	(NA)
	NEW JERSEY.	89	19	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PENNSYLVANIA.	93	16	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NORTH CENTRAL REGION.	666	149	17.6	168.6	4.4	8.6	33.6	434.5	295.3	721.0	12.7	20.6	341.0
	EAST NORTH CENTRAL DIVISION.	476	114	11.5	115.3	2.5	4.9	20.5	320.6	169.4	488.5	6.4	(NA)	(NA)
	OHIO.	43	24	3.0	28.1	.4	.7	3.0	64.8	26.9	110.2	1.4	(NA)	(NA)
	INDIANA.	36	6	.5	3.8	.3	.6	2.0	8.6	7.2	15.6	.3	(NA)	(NA)
	ILLINOIS.	244	66	6.7	71.3	1.3	2.6	11.8	198.1	120.9	315.1	4.2	(NA)	(NA)
	MICHIGAN.	68	9	.6	5.6	.2	.4	1.4	13.2	6.6	19.8	.3	(NA)	(NA)
	WISCONSIN.	65	9	.7	6.4	.3	.6	2.2	15.8	7.8	23.4	.2	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION.	190	35	6.1	53.3	1.9	3.7	13.1	113.9	118.4	252.5	6.3	(NA)	(NA)
	MINNESOTA.	49	6	.9	8.9	.2	.4	.5	25.6	6.3	33.9	(0)	(NA)	(NA)
	IOWA.	26	5	1.4	17.0	.2	.4	1.8	34.2	80.7	114.5	.8	(NA)	(NA)
	MISSOURI.	69	19	2.9	23.9	1.3	2.7	10.1	46.5	24.5	71.0	(0)	(NA)	(NA)
	KANSAS.	24	3	.3	2.2	.1	.1	.4	4.7	2.5	7.2	.6	(NA)	(NA)
	SOUTH REGION.	526	65	9.9	90.0	1.5	3.2	11.0	228.7	137.1	361.6	5.9	8.5	154.2
	SOUTH ATLANTIC DIVISION.	297	36	6.0	61.6	.7	1.2	4.3	164.0	107.7	269.0	3.9	(NA)	(NA)
	MARYLAND.	31	7	1.3	15.4	.1	.2	.5	39.0	32.4	70.3	1.3	(NA)	(NA)
	DISTRICT OF COLUMBIA.	73	16	3.0	36.1	.1	.3	1.2	90.9	56.6	145.0	1.6	(NA)	(NA)
	VIRGINIA.	30	3	.2	1.3	(2)	(2)	.1	3.7	2.2	6.0	.1	(NA)	(NA)
	NORTH CAROLINA.	32	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	GEORGIA.	35	2	.2	2.9	.1	.1	.6	6.9	3.6	10.5	.2	(NA)	(NA)
	FLORIDA.	75	4	.4	3.5	.2	.3	.9	18.4	10.6	26.8	.4	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION.	73	14	2.6	17.3	.7	1.2	3.7	37.0	17.5	53.0	1.4	(NA)	(NA)
	KENTUCKY.	20	4	.3	1.9	.1	.2	.6	3.2	2.2	5.4	.1	(NA)	(NA)
	TENNESSEE.	38	10	2.2	14.9	.6	1.0	3.1	51.1	14.6	44.3	(0)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION.	156	15	1.3	11.1	.5	.8	3.0	27.7	11.9	39.6	.7	(NA)	(NA)
	OKLAHOMA.	18	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TEXAS.	99	10	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man hours	Wages						
272	PERIODICALS--CONTINUED													
	WEST REGION.	430	53	5.0	48.2	1.1	2.1	7.5	124.5	68.7	213.4	3.2	4.1	51.1
	MOUNTAIN DIVISION.	76	9	.8	6.5	.3	.7	2.0	19.6	8.0	27.6	.5	(NA)	(NA)
	COLORADO.	30	6	.5	4.3	.2	.5	1.4	13.4	5.6	19.0	.4	(NA)	(NA)
	PACIFIC DIVISION.	354	44	4.1	41.7	.8	1.4	5.5	104.9	60.7	185.8	2.7	(NA)	(NA)
	WASHINGTON.	27	3	.2	1.8	(2)	(2)	.3	4.7	2.7	7.4	(0)	(NA)	(NA)
	CALIFORNIA.	302	36	3.8	38.6	.7	1.2	4.7	97.8	77.2	175.2	2.2	(NA)	(NA)
273	BOOKS.	1 905	594	98.1	918.9	49.2	96.0	397.6	2 540.3	1 292.4	3 794.5	62.3	(NA)	(NA)
	NORTHEAST REGION.	889	286	46.8	456.5	19.2	37.8	159.6	1 410.4	727.6	2 112.1	45.2	47.7	1 163.7
	NEW ENGLAND DIVISION.	152	44	9.3	87.5	5.6	11.3	50.3	190.6	108.1	303.0	8.8	10.4	123.4
	VERMONT.	5	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	MASSACHUSETTS.	84	27	7.2	68.3	4.1	8.4	38.0	156.0	93.6	254.6	7.7	8.3	169.0
	RHODE ISLAND.	6	2	.2	1.8	.1	.2	1.2	3.1	1.9	5.2	(2)	5.3	(0)
	CONNECTICUT.	41	9	.8	7.5	.4	.7	3.3	15.4	6.9	21.5	.6	.4	5.6
	MIDDLE ATLANTIC DIVISION.	737	242	37.5	368.9	13.5	26.5	109.3	1 219.7	619.5	1 809.1	36.4	36.7	854.8
	NEW YORK.	543	172	28.2	287.5	8.4	16.7	69.6	1 046.3	518.9	1 537.4	33.5	28.7	731.3
	NEW JERSEY.	97	32	3.2	28.0	1.2	2.2	9.4	77.9	44.2	122.0	.8	2.9	59.7
	PENNSYLVANIA.	97	38	6.1	57.4	3.9	7.6	30.2	95.5	56.4	149.6	2.0	5.2	64.7
	NORTH CENTRAL REGION.	408	141	29.5	289.6	14.6	29.1	131.7	774.1	363.5	1 150.1	24.8	30.9	591.8
	EAST NORTH CENTRAL DIVISION.	307	105	22.7	223.0	10.4	20.7	94.0	642.9	320.2	956.9	20.5	25.6	513.0
	OHIO.	62	17	4.6	41.1	2.2	4.4	18.9	111.5	56.8	162.0	3.3	4.0	73.5
	INDIANA.	36	14	5.0	50.6	3.5	7.1	35.5	82.4	48.7	132.0	4.9	6.5	75.0
	ILLINOIS.	141	49	9.0	94.0	1.9	4.1	17.1	364.9	159.0	524.1	7.8	9.2	270.9
	MICHIGAN.	48	13	2.2	18.0	1.2	2.1	8.0	41.4	21.9	62.6	3.1	2.0	29.5
	WISCONSIN.	30	12	1.9	19.3	1.5	3.0	14.4	42.6	33.9	76.2	1.4	3.9	50.1
	WEST NORTH CENTRAL DIVISION.	101	36	6.8	66.6	4.5	8.4	37.7	131.3	63.3	193.3	4.3	5.3	64.1
	MINNESOTA.	28	8	2.5	28.5	1.7	2.9	13.7	53.0	20.1	73.7	.8	2.7	23.4
	IOWA.	20	6	1.8	16.5	1.4	2.6	14.0	38.3	24.2	61.4	(0)	.4	6.2
	MISSOURI.	31	15	1.8	15.7	.9	1.9	7.5	31.6	15.6	46.3	1.6	EE	(0)
	KANSAS.	10	4	.5	3.0	.4	.7	2.1	6.5	2.5	8.9	(0)	(NA)	(NA)
	SOUTH REGION.	330	105	14.9	119.7	10.9	21.5	78.9	219.8	127.7	344.9	8.5	13.5	150.6
	SOUTH ATLANTIC DIVISION.	197	65	6.9	59.7	5.1	9.6	39.7	107.4	58.0	164.2	4.2	6.1	70.2
	MARYLAND.	41	19	2.4	22.4	1.8	3.3	16.0	41.7	27.0	67.9	1.7	2.3	27.7
	DISTRICT OF COLUMBIA.	37	12	1.0	9.4	.7	1.4	6.6	16.8	8.2	24.7	1.2	1.3	15.2
	VIRGINIA.	21	4	1.3	10.0	1.0	2.0	6.7	17.2	7.3	24.4	.4	.9	9.5
	NORTH CAROLINA.	15	6	.8	5.9	.6	1.2	3.6	10.7	4.5	15.2	.2	.5	4.0
	GEORGIA.	19	5	.3	2.9	.2	.3	1.4	4.6	3.1	7.7	.2	.4	5.9
	FLORIDA.	54	11	.9	7.4	.7	1.3	4.6	13.4	6.6	19.9	.5	.4	4.2
	EAST SOUTH CENTRAL DIVISION.	56	19	5.4	41.6	4.0	8.3	28.4	68.0	51.5	119.6	3.3	5.1	50.0
	KENTUCKY.	10	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	TENNESSEE.	24	9	3.1	27.2	2.3	4.9	17.6	35.2	32.7	69.3	(0)	3.6	30.4
	ALABAMA.	19	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	8.0
	WEST SOUTH CENTRAL DIVISION.	77	21	2.6	18.5	1.8	3.6	10.8	44.4	18.2	61.1	1.0	2.3	30.4
	OKLAHOMA.	9	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TEXAS.	57	16	2.2	15.0	1.6	3.1	9.4	37.7	14.4	50.8	(0)	2.0	25.2
	WEST REGION.	278	62	6.8	53.1	4.3	7.5	27.5	136.0	53.6	167.4	3.8	4.5	61.5
	MOUNTAIN DIVISION.	57	15	1.2	9.9	1.0	1.8	6.7	21.8	8.4	29.2	1.1	1.1	3.8
	COLORADO.	18	7	.8	6.3	.7	1.3	4.6	13.0	4.0	16.7	.2	8.0	(0)
	PACIFIC DIVISION.	221	47	5.6	43.2	3.3	5.8	20.9	114.1	45.2	158.2	2.7	3.4	52.7
	WASHINGTON.	13	3	.5	2.0	.4	.4	1.3	6.0	1.9	7.7	(0)	(NA)	(NA)
	CALIFORNIA.	195	42	5.0	40.2	2.9	5.2	19.0	106.4	42.4	147.9	2.5	3.1	49.2
274	MISCELLANEOUS PUBLISHING.	2 041	272	38.8	331.2	19.1	31.7	135.0	775.8	296.1	1 070.2	22.7	(NA)	(NA)
	NORTHEAST REGION.	719	107	15.7	137.7	6.4	10.3	46.0	307.9	84.6	390.6	8.9	12.1	152.4
	NEW ENGLAND DIVISION.	110	18	1.7	12.5	.8	1.2	4.3	32.9	8.9	41.3	.9	(NA)	(NA)
	MASSACHUSETTS.	63	12	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CONNECTICUT.	30	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION.	609	89	14.0	125.2	5.6	9.1	43.6	275.0	75.6	349.2	8.0	(NA)	(NA)
	NEW YORK.	470	62	8.7	76.3	3.4	5.6	24.9	172.8	46.4	218.0	4.1	(NA)	(NA)
	NEW JERSEY.	74	17	3.8	36.4	.9	1.6	8.7	66.4	19.6	85.9	1.5	(NA)	(NA)
	PENNSYLVANIA.	65	10	1.5	12.5	1.2	1.9	10.1	35.8	9.6	45.4	2.4	(NA)	(NA)
	NORTH CENTRAL REGION.	500	85	13.8	121.9	7.2	12.7	52.8	292.5	162.1	455.6	7.2	11.5	179.6
	EAST NORTH CENTRAL DIVISION.	357	61	10.9	102.8	5.5	9.8	43.1	252.6	140.7	394.3	5.7	(NA)	(NA)
	OHIO.	65	16	1.3	9.3	.9	1.5	4.7	16.6	9.3	25.8	.5	(NA)	(NA)
	INDIANA.	32	8	.9	6.3	.3	.6	2.1	25.7	12.1	37.2	.5	(NA)	(NA)
	ILLINOIS.	136	24	5.4	59.3	2.2	3.9	18.6	118.2	90.1	209.9	1.9	(NA)	(NA)
	MICHIGAN.	81	10	3.0	25.8	1.9	3.6	16.3	86.9	28.1	115.1	2.3	(NA)	(NA)
	WISCONSIN.	43	3	.3	2.1	.2	.2	1.4	5.2	1.1	6.3	.5	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION.	143	24	2.9	19.0	1.6	2.9	9.6	39.9	21.4	61.4	1.5	(NA)	(NA)
	MINNESOTA.	35	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	IOWA.	40	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MISSOURI.	33	3	.6	4.1	.1	.2	.7	10.0	3.3	13.4	.3	(NA)	(NA)
	KANSAS.	22	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION.	413	44	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	SOUTH ATLANTIC DIVISION.	197	25	2.8	21.5	1.3	2.0	7.5	52.2	14.0	66.4	2.0	(NA)	(NA)
	MARYLAND.	26	1	.2	1.2	.1	.1	.5	3.4	1.1	4.5	.1	(NA)	(NA)
	DISTRICT OF COLUMBIA.	30	5	.6	5.9	.2	.2	1.2	18.5	6.6	25.1	.2	(NA)	(NA)
	VIRGINIA.	19	4	.9	6.1	.2	.3	1.3	10.9	.7	11.8	.1	(NA)	(NA)
	GEORGIA.	26	4	.2	1.5	.1	.2	.9	3.7	1.1	4.8	.2	(NA)	(NA)
	FLORIDA.	77	10	.8	6.2	.6	1.0	3.2	14.3	3.9	18.4	1.4	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
274	MISCELLANEOUS PUBLISHING--CON. SOUTH REGION--CONTINUED													
	EAST SOUTH CENTRAL DIVISION. . . .	104	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TENNESSEE.	80	6	.6	4.2	.4	.5	1.8	9.5	2.6	11.9	.7	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	112	12	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TEXAS.	82	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST REGION.	409	36	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	MOUNTAIN DIVISION.	47	3	.8	7.3	.5	.8	3.8	18.3	4.0	22.4	.5	(NA)	(NA)
	COLORADO.	16	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION.	362	33	3.9	30.0	2.7	4.3	16.9	73.9	23.7	96.6	2.7	(NA)	(NA)
	CALIFORNIA.	323	31	3.8	28.4	2.5	4.0	15.7	70.1	22.8	91.9	2.6	(NA)	(NA)
275	COMMERCIAL PRINTING.	22 282	3 527	344.2	3 277.4	268.3	503.0	2 323.5	5 695.0	3 671.6	9 329.7	377.8	(NA)	(NA)
	NORTHEAST REGION.	6 666	1 122	107.0	1 047.3	83.3	155.5	739.3	1 796.8	1 090.0	2 874.4	115.3	(NA)	(NA)
	NEW ENGLAND DIVISION.	1 478	272	24.0	215.0	18.8	36.0	151.1	369.7	213.9	579.4	25.1	(NA)	(NA)
	MAINE.	80	11	.7	5.4	.6	1.1	3.5	11.1	8.0	19.1	1.4	(NA)	(NA)
	NEW HAMPSHIRE.	83	10	1.6	13.3	1.4	2.7	10.1	19.6	11.9	31.6	1.0	(NA)	(NA)
	VERMONT.	69	8	.7	6.3	.5	.9	3.7	11.3	5.9	17.1	1.0	(NA)	(NA)
	MASSACHUSETTS.	751	142	12.4	109.1	9.6	18.1	76.1	186.2	100.9	283.7	12.2	(NA)	(NA)
	RHODE ISLAND.	127	17	1.7	17.2	1.4	2.7	12.5	30.7	21.1	51.5	2.2	(NA)	(NA)
	CONNECTICUT.	368	84	6.8	63.7	5.3	10.5	45.2	110.8	66.1	176.3	7.3	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION.	5 188	850	83.0	832.3	64.5	119.5	586.3	1 427.2	876.3	2 295.0	90.2	(NA)	(NA)
	NEW YORK.	3 063	458	44.4	469.6	33.9	62.7	326.2	825.2	476.8	1 296.7	40.1	(NA)	(NA)
	NEW JERSEY.	905	159	13.2	134.1	10.6	19.5	95.4	228.6	148.0	376.7	12.7	(NA)	(NA)
	PENNSYLVANIA.	1 220	233	25.4	228.6	20.1	37.3	166.7	373.3	252.0	621.6	37.4	(NA)	(NA)
	NORTH CENTRAL REGION.	6 273	1 159	125.0	1 242.3	97.6	185.7	891.7	2 147.2	1 443.1	3 575.6	148.1	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . .	4 604	854	99.0	1 002.9	77.5	148.0	725.4	1 724.0	1 151.9	2 866.1	114.2	(NA)	(NA)
	OHIO.	1 151	224	25.0	239.8	19.4	37.1	171.6	402.6	274.1	672.9	20.4	(NA)	(NA)
	INDIANA.	400	84	8.0	71.9	6.3	12.3	52.3	134.8	80.0	214.7	10.1	(NA)	(NA)
	ILLINOIS.	1 629	340	43.9	473.8	35.1	67.2	351.9	812.6	518.0	1 328.5	56.2	(NA)	(NA)
	MICHIGAN.	822	109	11.0	111.1	8.3	15.3	75.2	195.7	139.6	334.6	11.3	(NA)	(NA)
	WISCONSIN.	512	97	11.1	106.2	8.4	16.0	74.4	178.3	140.1	315.4	16.3	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	1 069	305	26.0	239.4	20.0	37.8	166.3	423.3	291.2	709.5	33.9	(NA)	(NA)
	MINNESOTA.	421	97	8.7	87.1	6.7	12.7	61.6	155.8	106.9	259.4	13.5	(NA)	(NA)
	IOA.	266	40	2.9	23.9	2.2	4.0	14.9	41.5	26.1	67.3	(0)	(NA)	(NA)
	MISSOURI.	551	91	8.5	79.3	6.6	12.2	55.7	142.2	98.8	239.4	12.6	(NA)	(NA)
	NORTH DAKOTA.	36	10	.5	2.8	.3	.6	1.8	4.6	2.8	7.4	.4	(NA)	(NA)
	SOUTH DAKOTA.	46	5	.4	3.0	.3	.4	1.8	5.7	2.8	6.5	.3	(NA)	(NA)
	NEBRASKA.	136	26	2.0	18.6	1.6	3.2	12.9	31.5	24.9	56.9	1.6	(NA)	(NA)
	KANSAS.	213	36	3.1	24.7	2.4	4.6	17.7	42.0	28.8	70.6	(0)	(NA)	(NA)
	SOUTH REGION.	5 395	781	69.5	587.0	54.5	102.8	413.3	1 037.0	681.5	1 713.1	69.0	(NA)	(NA)
	SOUTH ATLANTIC DIVISION.	2 819	426	37.5	327.6	29.1	54.7	224.6	570.7	368.0	934.8	33.8	(NA)	(NA)
	DELAWARE.	42	5	.5	4.8	.4	.8	3.2	6.8	4.1	10.8	.5	(NA)	(NA)
	MARYLAND.	340	75	7.5	70.9	5.8	10.7	49.4	119.6	67.4	185.4	6.3	(NA)	(NA)
	DISTRICT OF COLUMBIA.	134	27	2.7	28.0	1.9	3.5	18.8	51.3	27.1	78.2	3.5	(NA)	(NA)
	VIRGINIA.	355	55	4.9	38.2	3.9	7.1	26.6	62.7	38.6	126.6	3.8	(NA)	(NA)
	WEST VIRGINIA.	88	13	.9	6.6	.7	1.3	4.8	13.0	8.5	21.5	.6	(NA)	(NA)
	NORTH CAROLINA.	397	57	4.3	32.6	3.5	6.6	22.3	63.5	31.4	114.1	4.0	(NA)	(NA)
	SOUTH CAROLINA.	161	27	2.0	14.5	1.4	2.7	9.1	25.7	12.0	37.7	1.6	(NA)	(NA)
	GEORGIA.	414	70	6.6	61.3	5.1	10.0	43.8	104.9	73.4	177.9	4.9	(NA)	(NA)
	FLORIDA.	886	97	8.2	64.6	6.5	12.1	45.3	117.9	65.3	182.6	7.9	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	845	130	14.0	119.7	11.3	21.6	88.5	207.0	130.2	335.3	15.1	(NA)	(NA)
	KENTUCKY.	191	44	5.8	51.5	4.7	8.7	38.4	85.8	44.1	129.4	6.9	(NA)	(NA)
	TENNESSEE.	351	54	5.5	47.8	4.5	8.9	35.1	85.5	61.5	145.7	5.9	(NA)	(NA)
	ALABAMA.	192	22	1.9	15.0	1.6	2.9	11.5	26.5	17.9	44.4	(0)	(NA)	(NA)
	MISSISSIPPI.	111	10	.8	5.3	.6	1.1	3.5	9.2	6.7	15.8	(0)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	1 731	225	18.0	145.7	14.1	26.4	100.2	259.3	163.3	443.1	20.1	(NA)	(NA)
	ARKANSAS.	110	16	1.4	11.2	1.0	1.8	7.2	18.9	12.0	30.9	2.6	(NA)	(NA)
	LOUISIANA.	248	33	2.4	18.3	2.0	3.7	12.5	33.7	23.2	57.8	2.1	(NA)	(NA)
	OKLAHOMA.	239	21	1.9	15.0	1.6	3.1	11.2	30.8	21.2	51.5	2.6	(NA)	(NA)
	TEXAS.	1 126	155	12.3	101.1	9.5	17.6	69.3	176.0	126.8	302.9	12.6	(NA)	(NA)
	WEST REGION.	3 948	465	42.6	406.8	32.8	59.0	279.1	713.9	456.4	1 166.6	45.3	(NA)	(NA)
	MOUNTAIN DIVISION.	752	83	7.8	65.1	5.9	10.9	45.2	98.3	67.2	164.9	8.5	(NA)	(NA)
	MONTANA.	34	6	.3	2.7	.2	.4	1.9	5.0	2.6	7.6	.3	(NA)	(NA)
	IDAHO.	41	3	.8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WYOMING.	23	4	.4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	COLORADO.	271	31	2.7	23.0	2.1	3.7	15.5	42.2	22.4	64.2	4.4	(NA)	(NA)
	NEW MEXICO.	79	7	.4	3.1	.3	.6	2.1	6.1	4.0	9.9	.5	(NA)	(NA)
	ARIZONA.	168	16	1.8	16.1	1.5	2.7	11.8	27.8	17.9	45.6	1.6	(NA)	(NA)
	UTAH.	91	11	1.6	13.2	1.1	2.0	8.7	6.6	13.7	20.2	.7	(NA)	(NA)
	NEVADA.	45	5	.4	3.3	.4	.7	2.6	5.6	2.9	8.5	(0)	(NA)	(NA)
	PACIFIC DIVISION.	3 196	382	34.8	335.7	26.9	48.1	233.9	615.6	399.1	1 001.7	36.9	(NA)	(NA)
	WASHINGTON.	203	28	2.5	22.4	1.9	3.3	15.4	40.5	22.9	62.7	1.5	(NA)	(NA)
	OREGON.	215	22	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CALIFORNIA.	2 596	322	29.7	290.7	23.1	41.5	203.5	533.0	337.0	867.9	32.7	(NA)	(NA)
	HAWAII.	67	9	.7	6.9	.5	.9	4.4	12.4	8.5	20.0	1.3	(NA)	(NA)
276	MANIFOLD BUSINESS FORMS.	667	376	38.6	343.6	28.8	58.6	235.2	823.6	612.3	1 429.7	45.6	(NA)	(NA)
	NORTHEAST REGION.	182	100	9.3	85.6	7.0	14.1	59.1	200.8	158.7	358.6	10.3	8.4	134.5
	NEW ENGLAND DIVISION.	36	24	2.7	25.3	2.0	4.1	16.8	58.3	40.3	98.2	3.9	(NA)	(NA)
	NEW HAMPSHIRE.	4	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	VERMONT.	3	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS.	11	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	RHODE ISLAND.	4	3	.2	1.7	.1	.3	1.0	3.4	2.2	5.6	(2)	(NA)	(NA)
	CONNECTICUT.	12	7	.8	8.2	.6	1.2	5.9	20.1	15.9	36.1	1.4	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 Code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					(million dollars)	(million dollars)
76	MANIFOLD BUSINESS FORMS--CONTINUED													
	NORTHEAST REGION--CONTINUED													
	MIDDLE ATLANTIC DIVISION	146	76	6.6	60.4	4.9	10.0	42.3	142.5	118.4	260.5	6.4	(NA)	(NA)
	NEW YORK	77	34	2.5	24.0	1.7	3.5	15.3	47.4	34.4	81.5	2.0	(NA)	(NA)
	NEW JERSEY	27	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA	42	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION	185	111	12.5	116.6	9.3	18.9	78.7	267.0	195.6	461.4	12.8	13.6	205.6
	EAST NORTH CENTRAL DIVISION	131	76	9.2	88.4	6.9	13.9	61.3	212.9	154.9	367.7	8.9	(NA)	(NA)
	OHIO	31	19	3.2	30.0	2.3	5.0	22.2	78.7	44.3	122.9	2.9	(NA)	(NA)
	INDIANA	11	4	.7	6.0	.4	.9	3.7	16.5	9.3	26.2	.4	(NA)	(NA)
	ILLINOIS	46	30	3.4	33.5	2.6	5.3	24.0	73.9	57.7	131.2	3.4	(NA)	(NA)
	MICHIGAN	26	12	1.0	10.3	.6	1.2	5.8	19.2	20.4	39.3	.9	(NA)	(NA)
	WISCONSIN	13	11	1.0	8.6	.7	1.5	5.5	24.6	23.2	48.1	1.2	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	54	35	3.3	28.2	2.4	5.0	17.5	54.1	40.7	93.7	4.0	(NA)	(NA)
	MINNESOTA	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	IOWA	10	8	.6	4.9	.5	1.0	3.4	13.6	10.2	23.7	.9	(NA)	(NA)
	MISSOURI	17	9	.9	7.5	.6	1.3	4.9	14.1	9.5	22.7	.7	(NA)	(NA)
	NEBRASKA	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	12	9	1.0	7.5	.7	1.6	5.1	14.2	9.8	23.7	1.9	(NA)	(NA)
	SOUTH REGION	180	101	11.1	68.4	8.4	17.5	60.6	216.8	165.0	378.4	15.3	7.6	116.4
	SOUTH ATLANTIC DIVISION	90	51	4.9	39.3	3.7	7.7	27.1	98.2	78.8	175.6	7.2	(NA)	(NA)
	MARYLAND	12	7	1.3	11.6	.9	1.9	7.0	27.1	23.3	50.0	3.6	(NA)	(NA)
	VIRGINIA	12	8	.8	5.9	.6	1.3	4.5	14.7	13.5	28.0	.6	(NA)	(NA)
	WEST VIRGINIA	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	19	11	.8	5.2	.6	1.2	4.1	10.3	8.5	18.8	.7	(NA)	(NA)
	SOUTH CAROLINA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	14	7	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA	23	13	.8	6.9	.6	1.2	4.5	13.1	10.7	23.1	.7	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	25	12	1.3	9.2	1.0	2.1	6.5	22.6	22.7	45.3	1.6	(NA)	(NA)
	KENTUCKY	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	15	4	.4	2.8	.3	.6	1.9	3.7	4.1	7.8	.3	(NA)	(NA)
	ALABAMA	6	3	.7	4.9	.5	1.1	3.5	15.3	16.6	32.0	.2	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	65	38	5.0	40.1	3.6	7.7	26.9	96.0	63.5	157.4	6.5	(NA)	(NA)
	ARKANSAS	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	LOUISIANA	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA	9	5	.8	5.9	.6	1.2	3.9	12.6	11.2	23.6	.7	(NA)	(NA)
	TEXAS	45	26	3.4	26.6	2.4	5.1	17.4	64.3	41.8	104.2	4.5	(NA)	(NA)
	WEST REGION	120	64	5.7	52.7	4.2	8.1	36.7	138.9	92.9	231.3	7.4	4.8	93.8
	MOUNTAIN DIVISION	20	12	.9	7.2	.7	1.2	4.6	19.5	8.6	26.0	.7	(NA)	(NA)
	COLORADO	4	3	.3	2.0	.2	.3	1.1	3.1	2.2	5.1	.1	(NA)	(NA)
	ARIZONA	6	5	.2	1.8	.1	.3	1.0	3.2	1.8	5.0	.1	(NA)	(NA)
	UTAH	5	4	.4	3.0	.3	.6	2.2	12.5	4.1	14.5	(D)	(NA)	(NA)
	PACIFIC DIVISION	100	52	4.8	45.6	3.5	6.9	32.0	119.4	84.3	203.3	6.7	(NA)	(NA)
	WASHINGTON	6	4	.3	2.6	.2	.4	1.7	4.0	3.2	7.1	.3	(NA)	(NA)
	OREGON	13	7	.6	4.7	.4	.8	3.5	16.3	8.5	24.5	1.3	(NA)	(NA)
	CALIFORNIA	79	41	3.9	38.2	2.9	5.8	26.9	99.1	72.7	171.7	5.1	(NA)	(NA)
77	GREETING CARD PUBLISHING	199	82	23.5	191.5	12.4	24.1	93.9	527.0	261.4	774.4	46.4	(NA)	(NA)
	NORTHEAST REGION	101	40	6.5	47.7	4.6	8.5	28.6	122.3	62.4	185.2	4.6	7.4	97.0
	NEW ENGLAND DIVISION	26	14	3.9	29.5	2.5	4.5	16.1	70.1	36.8	106.3	2.7	(NA)	(NA)
	NEW HAMPSHIRE	3	2	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VERMONT	3	1	FB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	17	9	2.2	17.2	1.4	2.3	9.3	37.5	19.5	54.8	(D)	(NA)	(NA)
	RHODE ISLAND	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	75	26	2.7	18.2	2.0	4.0	12.5	52.2	25.6	78.9	1.9	(NA)	(NA)
	NEW YORK	60	17	2.1	14.1	1.6	3.1	9.6	42.3	19.2	63.1	1.5	(NA)	(NA)
	NEW JERSEY	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION	49	27	13.8	123.2	5.6	11.5	52.6	325.1	174.7	483.7	40.4	16.5	226.4
	EAST NORTH CENTRAL DIVISION	32	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OHIO	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	INDIANA	2	1	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	16	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	17	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	SOUTH ATLANTIC DIVISION	13	4	.4	2.2	.3	.4	1.5	4.5	2.2	6.5	.2	(NA)	(NA)
	MARYLAND	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARKANSAS	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION	35	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	MOUNTAIN DIVISION	4	1	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	1	1	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	31	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	31	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manu- facture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manu- facture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
278	BLANKBOOKS AND BOOKBINDING	1 465	541	51.7	371.6	44.0	83.6	278.9	686.8	284.5	968.2	25.6	(NA)	(NA)
	NORTHEAST REGION	639	235	22.6	166.4	19.2	36.4	125.9	300.5	119.1	416.0	8.9	25.7	240.3
	NEW ENGLAND DIVISION	109	43	4.8	33.4	3.9	7.4	23.9	66.4	30.9	96.3	2.3	4.9	45.5
	MASSACHUSETTS	73	30	3.6	24.9	2.9	5.5	18.7	49.0	23.4	71.6	1.7	3.9	33.7
	RHODE ISLAND	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT	18	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	13.6
	MIDDLE ATLANTIC DIVISION	530	192	17.6	133.0	15.4	29.0	102.0	254.1	88.2	319.8	6.6	20.8	200.6
	NEW YORK	362	119	9.8	75.3	8.5	16.3	57.1	138.1	50.5	186.5	3.2	12.5	121.9
	NEW JERSEY	86	40	5.3	38.9	4.6	8.3	30.6	64.0	28.4	92.0	(D)	5.0	50.2
	PENNSYLVANIA	80	33	2.7	18.8	2.3	4.4	14.3	32.0	9.3	41.3	(D)	3.3	28.6
	NORTH CENTRAL REGION	380	156	16.0	117.0	13.6	26.1	87.3	221.3	95.5	313.5	6.5	17.0	163.8
	EAST NORTH CENTRAL DIVISION	278	121	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.3	123.1
	OHIO	56	20	1.5	10.1	1.3	2.3	7.3	18.6	5.8	24.4	.4	1.3	12.7
	INDIANA	22	9	FE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	10.2
	ILLINOIS	144	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.2	75.1
	MICHIGAN	76	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	17.4
	WISCONSIN	20	3	.8	6.3	.7	1.2	4.3	10.8	3.8	14.5	.2	.8	7.7
	WEST NORTH CENTRAL DIVISION	102	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	40.6
	MINNESOTA	30	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.5
	IOWA	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.3
	MISSOURI	44	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	23.1
	KANSAS	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	3.4
	SOUTH REGION	218	87	7.4	45.8	6.5	12.1	35.0	82.7	36.8	119.4	6.1	6.1	45.6
	SOUTH ATLANTIC DIVISION	124	55	4.2	26.5	3.7	6.6	20.5	46.1	19.5	66.1	2.5	3.9	30.0
	MARYLAND	16	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	11.4
	VIRGINIA	15	6	.6	3.8	.5	1.0	3.0	8.1	3.6	11.7	.4	.2	2.2
	NORTH CAROLINA	21	11	.7	3.6	.6	1.1	2.5	5.2	2.0	7.3	.2	.6	3.0
	GEORGIA	26	13	1.2	6.7	1.0	2.1	5.2	12.5	7.1	20.2	.7	.8	7.6
	FLORIDA	33	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.3
	EAST SOUTH CENTRAL DIVISION	23	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.3
	TENNESSEE	11	6	.5	2.8	.4	.8	2.2	5.0	2.6	7.6	.6	.3	2.5
	ALABAMA	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	71	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	13.3
	LOUISIANA	8	3	.2	1.5	.2	.4	1.1	3.3	1.0	4.3	.1	(NA)	(NA)
	OKLAHOMA	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	45	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	11.3
	WEST REGION	226	63	5.6	42.3	4.7	9.0	30.7	82.4	33.1	119.2	4.1	4.8	49.3
	MOUNTAIN DIVISION	37	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	2.7
	COLORADO	11	3	.2	1.0	.1	.3	.9	2.2	.6	2.8	.4	(NA)	(NA)
	ARIZONA	12	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.2
	UTAH	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	.8
	PACIFIC DIVISION	191	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	46.6
	WASHINGTON	10	3	.3	2.5	.2	.4	1.5	5.7	.7	6.4	.3	.3	2.7
	OREGON	11	4	.2	2.0	.2	.4	1.5	4.0	1.1	5.1	(D)	.2	2.2
	CALIFORNIA	165	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	41.6
279	PRINTING TRADE SERVICES	2 894	656	46.6	520.5	35.1	64.6	377.2	831.3	178.5	1 006.3	30.6	(NA)	(NA)
	NORTHEAST REGION	990	260	19.7	221.1	14.5	26.3	159.3	353.7	75.0	426.5	13.5	(NA)	(NA)
	NEW ENGLAND DIVISION	216	56	3.7	41.3	2.9	5.5	30.9	64.9	11.8	75.5	2.6	(NA)	(NA)
	MASSACHUSETTS	111	29	1.8	18.8	1.4	2.5	13.5	28.0	6.1	33.3	(D)	(NA)	(NA)
	RHODE ISLAND	16	5	.2	3.2	.2	.3	2.3	4.9	.9	5.6	(D)	(NA)	(NA)
	CONNECTICUT	78	19	1.4	17.1	1.1	2.2	13.1	28.3	4.5	32.3	1.3	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	772	204	16.0	170.8	11.6	20.8	128.5	288.8	63.3	351.0	10.9	(NA)	(NA)
	NEW YORK	466	127	10.2	122.3	7.1	13.3	88.0	195.0	39.7	234.0	6.0	(NA)	(NA)
	NEW JERSEY	145	30	2.2	24.3	1.6	2.9	15.4	41.4	14.4	55.6	3.5	(NA)	(NA)
	PENNSYLVANIA	141	47	3.5	33.2	2.9	4.6	25.1	52.3	9.2	61.4	1.4	(NA)	(NA)
	NORTH CENTRAL REGION	836	220	15.4	172.6	11.6	21.9	130.7	279.4	61.7	340.7	8.9	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	637	174	12.4	144.4	9.5	17.2	106.2	223.5	47.5	270.4	(D)	(NA)	(NA)
	OHIO	146	43	2.5	27.9	1.9	3.5	20.8	42.0	9.2	51.0	1.6	(NA)	(NA)
	INDIANA	59	12	.8	8.2	.7	1.2	6.1	11.6	2.5	14.0	(D)	(NA)	(NA)
	ILLINOIS	251	80	6.4	77.6	4.9	9.3	57.2	119.6	26.1	145.5	2.8	(NA)	(NA)
	MICHIGAN	119	29	1.9	22.6	1.5	2.8	16.4	35.6	6.4	41.9	1.4	(NA)	(NA)
	WISCONSIN	60	10	.7	8.1	.5	1.0	5.8	14.8	3.4	18.1	.4	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	199	46	3.0	34.2	2.3	4.2	24.5	55.9	14.2	70.4	(D)	(NA)	(NA)
	MINNESOTA	45	16	.9	10.8	.7	1.3	7.9	16.6	3.4	20.0	(D)	(NA)	(NA)
	IOWA	24	1	.2	1.9	.2	.4	1.5	3.1	.6	3.8	(D)	(NA)	(NA)
	MISSOURI	97	21	1.6	18.7	1.1	2.1	13.0	32.0	9.3	41.2	(D)	(NA)	(NA)
	SOUTH REGION	612	108	7.1	70.4	5.5	10.2	50.9	117.4	27.5	144.3	5.2	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	349	63	3.9	30.5	3.0	5.6	28.8	65.2	13.9	79.0	2.5	(NA)	(NA)
	MARYLAND	65	17	1.0	9.9	.8	1.4	6.9	16.4	5.4	21.0	.8	(NA)	(NA)
	DISTRICT OF COLUMBIA	37	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	47	7	.6	6.5	.5	1.0	4.9	11.3	2.1	13.4	.2	(NA)	(NA)
	NORTH CAROLINA	41	6	.3	3.2	.3	.4	2.2	5.3	1.1	6.3	.2	(NA)	(NA)
	GEORGIA	39	7	.4	4.0	.3	.5	2.7	6.2	1.1	7.2	.3	(NA)	(NA)
	FLORIDA	102	13	.8	7.7	.6	1.2	5.6	13.5	2.4	15.8	.7	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	100	18	1.3	12.2	1.1	2.1	4.2	20.2	4.8	24.7	.8	(NA)	(NA)
	KENTUCKY	24	4	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	50	13	.9	8.5	.7	1.4	6.4	13.7	3.3	16.8	.6	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	163	27	1.8	18.7	1.4	2.6	12.9	32.0	8.7	40.7	1.9	(NA)	(NA)
	OKLAHOMA	26	3	.2	1.7	.1	.2	1.0	3.1	.7	3.8	.2	(NA)	(NA)
	TEXAS	111	21	1.5	15.3	1.1	2.1	10.7	25.8	7.7	33.5	1.6	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manu- facture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manu- facture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
279	PRINTING TRADE SERVICES--CONTINUED													
	WEST REGION.	456	68	4.4	50.4	3.3	6.1	36.2	80.9	14.3	94.6	3.0	(NA)	(NA)
	MOUNTAIN DIVISION.	76	7	.6	6.1	.5	.9	4.5	10.2	1.9	12.1	.6	(NA)	(NA)
	COLORADO	25	2	.2	2.1	.2	.3	1.5	3.7	.6	4.3	.2	(NA)	(NA)
	ARIZONA.	19	4	.3	2.5	.2	.4	1.8	4.1	.8	4.6	.1	(NA)	(NA)
	PACIFIC DIVISION	380	61	3.8	44.4	2.8	5.2	31.7	70.6	12.4	82.7	2.4	(NA)	(NA)
	WASHINGTON	25	3	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON	24	4	.5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	320	54	3.2	38.2	2.4	4.5	26.9	60.3	10.1	70.6	2.2	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Printing and publishing (SIC 27)	Newspapers (SIC 271)	Periodicals (SIC 272)	Books (SIC 273)	Miscel- laneous publishing (SIC 274)	Commercial printing (SIC 275)	Manifold business forms (SIC 276)	Greeting card publishing (SIC 277)	Blankbooks and bookbinding (SIC 278)	Printing trade services (SIC 279)
ESTABLISHMENTS, TOTALNUMBER .	42 103	8 116	2 534	1 905	2 041	22 282	667	199	1 465	2 894
WITH 1 TO 19 EMPLOYEES.DO .	33 484	5 997	2 082	1 311	1 769	18 755	291	117	924	2 238
WITH 20 TO 99 EMPLOYEES.DO .	6 795	1 528	354	405	210	2 973	262	46	417	600
WITH 100 EMPLOYEES OR MORE.DO .	1 824	591	98	189	62	554	114	36	124	56
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	1 056.5	348.5	66.5	98.1	38.8	344.2	38.6	23.5	51.7	46.6
PAYROLL FOR YEAR, ALL EMPLOYEESMILLION DOLLARS .	9 831.2	3 166.1	708.5	918.9	331.2	3 273.1	343.6	191.5	371.6	520.5
PRODUCTION WORKERS:										
AVERAGE FOR YEAR.1,000 .	637.6	169.7	11.1	49.2	19.1	268.2	28.8	12.4	44.0	35.1
MARCHDO .	635.2	168.6	11.4	49.9	20.1	266.8	28.5	11.6	43.2	35.2
MAYDO .	635.6	170.1	11.1	49.8	19.0	266.3	28.5	12.2	43.6	35.1
AUGUST.DO .	634.9	168.0	11.0	49.0	18.6	266.7	28.6	13.0	44.6	34.9
NOVEMBER.DO .	644.5	171.4	11.1	48.2	18.8	272.9	29.5	12.9	44.5	35.1
MAN-HOURSMILLIONS .	1 181.1	298.4	21.1	96.0	31.7	503.0	58.6	24.1	83.6	64.6
JANUARY-MARCHDO .	290.7	72.7	5.6	24.2	8.5	123.2	14.5	5.6	20.3	16.1
APRIL-JUNE.DO .	294.9	74.6	5.2	24.7	8.0	124.9	14.5	5.9	20.9	16.2
JULY-SEPTEMBER.DO .	293.7	73.9	5.2	23.7	7.6	125.0	14.6	6.4	21.2	16.1
OCTOBER-DECEMBER.DO .	301.8	77.1	5.1	23.3	7.6	130.0	15.0	6.2	21.1	16.2
WAGESMILLION DOLLARS .	5 462.6	1 536.8	84.6	397.6	135.0	2 323.5	235.2	93.9	278.9	377.2
COST OF MATERIALS, ETC., TOTAL ¹DO .	10 044.3	2 043.5	1 404.2	1 292.4	296.1	3 671.6	612.3	261.4	284.5	178.5
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMEDDO .	7 299.9	1 817.7	538.6	538.0	135.3	3 108.2	559.2	203.0	256.1	143.7
COST OF RESALESDO .	345.3	19.9	60.4	45.6	14.1	132.4	39.4	10.8	9.5	13.3
FUELS CONSUMED.DO .	49.8	9.9	1.2	4.0	.7	27.1	1.8	.9	2.1	2.1
PURCHASED ELECTRIC ENERGYDO .	136.8	37.0	5.6	10.9	2.7	56.8	7.4	3.4	6.0	6.9
CONTRACT WORKDO .	2 212.6	159.0	798.3	693.9	143.3	347.0	4.4	43.3	10.8	12.5
VALUE OF SHIPMENTS, INCLUDING RESALES ¹DO .	30 146.4	8 262.8	3 510.6	3 794.5	1 070.2	9 329.7	1 429.7	774.4	968.2	1 006.3
VALUE OF RESALES.DO .	480.6	22.4	71.8	77.1	19.8	176.1	65.6	14.9	14.7	18.2
VALUE ADDED BY MANUFACTURE.DO .	20 209.5	6 219.9	2 109.9	2 540.3	775.8	5 695.0	823.6	527.0	686.8	831.3
MANUFACTURERS' INVENTORIES:										
BEGINNING OF YEAR, TOTAL.DO .	2 248.3	169.3	194.1	697.0	64.3	656.0	132.4	185.3	98.9	51.2
FINISHED PRODUCTSDO .	834.3	4.4	60.6	435.0	23.3	134.8	39.7	93.4	32.3	10.9
WORK IN PROCESSDO .	578.4	3.5	37.7	173.0	25.2	213.0	23.3	51.2	29.2	22.2
MATERIALS, SUPPLIES, FUEL, ETC.DO .	835.6	161.4	95.8	89.0	15.7	308.2	69.4	40.6	37.4	18.1
END OF YEAR, TOTAL.DO .	2 340.3	152.5	197.2	728.8	68.1	700.2	143.8	190.7	104.7	54.4
FINISHED PRODUCTSDO .	879.9	4.2	61.8	460.0	22.5	143.0	41.2	103.3	32.2	11.9
WORK IN PROCESSDO .	612.9	4.4	39.6	173.2	26.6	235.0	25.4	54.1	30.9	23.7
MATERIALS, SUPPLIES, FUEL, ETC.DO .	847.5	143.9	95.8	95.6	19.1	322.2	77.2	33.2	41.6	18.9
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO .	1 132.8	386.2	57.7	86.7	23.1	417.4	54.2	46.8	27.2	33.5
NEW PLANT AND EQUIPMENT, TOTALDO .	1 047.7	359.5	56.8	82.3	22.7	377.8	45.8	46.4	25.6	30.6
NEW STRUCTURES AND ADDITIONS TO PLANTDO .	245.7	106.0	16.6	16.5	5.5	67.7	5.9	16.8	5.5	5.1
NEW MACHINERY AND EQUIPMENTDO .	302.0	253.5	40.2	65.8	17.2	310.0	39.9	29.6	20.1	25.5
USED PLANT AND EQUIPMENT.DO .	85.1	26.7	.9	4.4	.3	39.6	8.4	.3	1.6	2.9

¹The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Newspapers, Periodicals, Books, and Miscellaneous Publishing

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EXPLANATORY TEXT

NEWSPAPERS, PERIODICALS, BOOKS, AND MISCELLANEOUS PUBLISHING

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2711—Newspapers: Publishing, Publishing and Printing*

2721—Periodicals: Publishing, Publishing and Printing*

2731—Books: Publishing, Publishing and Printing*

2732—Book Printing

2741—Miscellaneous Publishing

The general statistics (employment, payrolls, value of receipts, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing receipts or shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products of establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

As in previous censuses, publishing, printing, and allied activities, other than those performed in government-owned and operated establishments, are included as manufacturing activities. Establishments engaged in publishing newspapers, and establishments primarily engaged in publishing periodicals, books, and miscellaneous publications (including those primarily engaged in book printing) are assigned to one of the five separately described industries below. As noted in the "Introduction," this report does not incorporate any data

reported by religious, social, charitable, educational, and other nonprofit organizations whose employees are not covered under the Social Security System. News syndicates are classified in service industries and their activities are included in the census of business.

The term "publisher" is used to designate the person or organization by whom or in whose name newspapers, periodicals, and other publications are listed. In order to provide the fullest possible coverage of the publishing field in the census of manufactures, a separate report was requested from each publishing establishment, whether or not any printing was done at the publishing location. All establishments engaged in the publishing of one newspaper or more are classified as newspaper publishers, without regard to the ratio of receipts from other activities (e.g., job printing) to their total receipts.

Publishers of newspapers and periodicals were asked to report separately for each of their publications, where possible, information on circulation and dollar receipts by frequency of issue as well as by type of revenue. The more common frequencies of issue were listed on the report forms supplied to all newspapers, and a special inquiry was addressed to publishers of periodicals to provide uniform designation of periodicals by type of issue. Newspaper and periodical publishers were required to break their total revenues into two parts—receipts from subscriptions and sales, and receipts from advertising. "Total revenue" was defined as net after deducting advertising agency commissions, cash discounts, newstand, carrier, and wholesalers' commissions, and other similar items.

As in 1967, the data on number of employees for newspaper and periodical publishing do not include newsboys or carrier boys. Again, periodical and book publishers have been subdivided to group, separately, those who publish only from those who print as well as publish. Newspapers are also subdivided into daily and weekly and other papers. The general operating statistics shown in tables 3, 4, and 5A provide this subindustry treatment for industries 2711, 2721, 2731, and 2741.

INDUSTRY 2711.—NEWSPAPERS (Short Title)

This industry comprises establishments primarily engaged in publishing and printing newspapers. These establishments

*Note that the "short title" for this industry is used throughout the report.

carry on the various operations necessary for issuing newspapers, including the gathering of news and the preparation of editorials and advertisements, but may or may not perform their own printing. Commercial printing is frequently carried on by establishments engaged in publishing and printing newspapers, but, even though the commercial printing may be of major importance, such establishments are included in this industry. For the purposes of the census of manufactures, the term "newspaper" includes those publications issued at regular frequencies which contain news of interest to the general public whether or not they are published in the English language. Establishments not engaged in publishing newspapers, but which print or lithograph newspapers for publishers, are classified in industries 2751, 2752, or 2754. News syndicates are classified in service industries (industry 7351). For a detailed list of products of industry 2711, refer to table 6A, product codes 27111 01 to 27114 98.

The code number as well as the definition of this industry was unchanged between 1972 and 1967.

Publications have been classified as periodicals (industry 2721) rather than as newspapers if their news and editorial presentations do not appear to be directed to the public at large. Among the types of publications sometimes considered newspapers, but treated in the census as periodicals, are the following: Trade journals; house organs, local church or school papers, and like publications with very limited or specialized news treatment. Generally publications issued by nonprofit organizations (educational, religious, charitable, labor, business, professional, etc.) are classified as periodicals, as are magazine and comic supplements for Sunday newspapers.

Receipts of the Newspapers Industry in 1972 totaled \$8,270.1 million. This included receipts from newspapers (primary products) valued at \$7,908.4 million, receipts from other activities (secondary products) valued at \$291.6 million, and miscellaneous receipts of \$70.1 million.

Receipts from newspapers (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was also 97 percent. Secondary receipts for this industry in 1972 consisted mainly of commercial printing, lithographic (\$132.0 million) and commercial printing, letterpress (\$110.2 million).

Receipts from newspapers (primary products) for establishments classified in industry 2711 in 1972 represented 100 percent (coverage ratio) of these receipts valued at \$7,908.4 million. In 1967, the coverage ratio was also 100 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and

sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2711, these establishments accounted for 6 percent of value of receipts.

INDUSTRY 2721.—PERIODICALS (Short title)

This industry comprises establishments primarily engaged in publishing periodicals, or in preparing, publishing, and printing periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print or lithograph periodicals for publishers are classified in industries 2751, 2752, or 2754.

Data on the periodical publishing activities of nonprofit organizations (religious, educational, social, charitable, etc.) have been included to the extent that the employees of such organizations are covered under the Social Security System. For the distinction between newspapers and periodicals which has been applied in classifying establishments for the census of manufactures, see the foregoing statements under industry 2711, Newspapers. For a detailed list of products of industry 2721, refer to table 6A, product codes 27211 12 to 27217 37.

The code number as well as the definition of this industry was unchanged between 1972 and 1967.

Receipts of the Periodicals Industry in 1972 totaled \$3,521.3 million. This included receipts from periodicals (primary products) valued at \$3,025.3 million, receipts from other activities (secondary products) valued at \$387.0 million, and miscellaneous receipts (mainly resales) of \$109.0 million.

Receipts from periodicals (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was also 89 percent. Secondary receipts for this industry in 1972 consisted mainly of book publishing (\$333.9 million) and miscellaneous publishing (\$33.7 million).

Receipts from periodicals (primary products) for establishments classified in industry 2721 in 1972 represented 95 percent (coverage ratio) of these receipts valued at \$3,197.7 million received by all industries. In 1967, the coverage ratio was 97 percent. Other industries with receipts from periodicals consisted mainly of industry 2731, Book Publishing (\$136.5 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed

from industry averages. For industry 2721, these establishments accounted for 6 percent of value of receipts.

INDUSTRY 2731.—BOOK PUBLISHING (Short Title)

This industry comprises establishments primarily engaged in publishing and printing books and pamphlets. Establishments primarily engaged in printing or in printing and binding (but not publishing) books and pamphlets are classified in industry 2732, Book Printing.

Industry 2731 also includes data on book publishing activities obtained from nonprofit organizations whose employees are covered under the Social Security System and were able to report their book publishing operations as a separate establishment. For a detailed list of the type of receipts classified as primary to industry 2731, refer to table 6A, product codes 27311 11 to 27319 59.

The data presented in table 6A for number of books sold represent the total number of books sold (shipped and billed) by publishers during 1972, without regard to whether these books were actually published or printed in 1972. The value figures shown in this table and in tables 6B and 6C are net publishers' receipts after deducting cash discounts, returns, and allowances; i.e., they represent net sales.

"Books" are considered to include all collections of 49 or more pages, exclusive of the cover, bound by any method, and all hardboard collections, irrespective of the number of pages. (The designation "hardbound" describes books which are bound with paper over board, cloth over board, and artificial or genuine leather.) "Pamphlets" are defined to mean any collection to be offered for sale of at least 5 but less than 49 paperbound pages.

The code number as well as the definition of this industry was unchanged between 1972 and 1967.

Receipts of the Book Publishing Industry in 1972 totaled \$2,856.8 million. This included receipts from book publishing (primary products) valued at \$2,512.1 million, receipts from other activities (secondary products) valued at \$191.1 million, and miscellaneous receipts of \$153.6 million.

Receipts from book publishing (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was 95 percent. Secondary receipts for this industry in 1972 consisted mainly of periodicals (\$136.5 million) and miscellaneous publishing (\$16.7 million).

Receipts from book publishing (primary products) for establishments classified in industry 2731 in 1972 represented 86 percent (coverage ratio) of these receipts valued at \$2,915.4 million received by all industries. In 1967, the coverage ratio was also 86 percent. Other industries with receipts from book publishing consisted mainly of industry 2721, Periodicals (\$333.9 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2731, these establishments accounted for 6 percent of value of receipts.

INDUSTRY 2732.—BOOK PRINTING

This industry comprises establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not engaged in publishing. Establishments primarily engaged in publishing, or in publishing and printing books and pamphlets, are classified in industry 2731. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere, are classified in industry 2789.

Establishments classified in industry 2732 are similar in character to some establishments primarily engaged in commercial printing (industries 2751, 2752, and 2754). The distinction is that all the establishments classified in industry 2732 derive the greater part of their revenue from printing books and pamphlets, while such operations are secondary activities for establishments classified in industries 2751, 2752, and 2754. For a detailed list of products of industry 2732, refer to table 6A, product codes 27321 11 to 27327 71.

The code number as well as the definition of this industry was unchanged between 1972 and 1967.

Receipts of the Book Printing Industry in 1972 totaled \$937.6 million. This included receipts from book printing (primary products) valued at \$762.9 million, receipts from other activities (secondary products) valued at \$153.8 million, and miscellaneous receipts (mainly resales) of \$20.9 million.

Receipts from book printing (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was 81 percent. Secondary receipts for this industry in 1972 consisted mainly of commercial printing, lithographic (\$106.7 million) and commercial printing, letterpress (\$17.6 million).

Receipts from book printing (primary products) for establishments classified in industry 2732 in 1972 represented 73 percent (coverage ratio) of these receipts valued at \$1,049.9 million received by all industries. In 1967, the coverage ratio was 70 percent. Other industries with receipts from book printing consisted mainly of industry 2752, Commercial Printing, Lithographic (\$206.9 million) and industry 2751, Commercial Printing, Letterpress (\$45.7 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2732, these establishments accounted for 5 percent of value of receipts.

INDUSTRY 2741.—MISCELLANEOUS PUBLISHING

This industry comprises establishments primarily engaged in miscellaneous publishing activities, not elsewhere classified, whether or not engaged in printing. Establishments primarily engaged in offering financial, credit, or other business services, and which may publish directories as part of this service, are not included in this industry but are classified in service industries. For a detailed list of products of industry 2741, refer to table 6A, product codes 27411 13 to 27413 98.

The code number as well as the definition of this industry was unchanged between 1972 and 1967.

Receipts of the Miscellaneous Publishing Industry in 1972 totaled \$1,070.2 million. This included receipts from miscel-

laneous publishing (primary products) valued at \$983.3 million, receipts from other activities (secondary products) valued at \$48.8 million, and miscellaneous receipts of \$38.1 million.

Receipts from miscellaneous publishing (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary receipts for this industry in 1972 consisted mainly of book publishing (\$29.1 million) and periodicals (\$13.4 million).

Receipts from miscellaneous publishing (primary products) for establishments classified in industry 2741 in 1972 represented 93 percent (coverage ratio) of these receipts valued at \$1,058.3 million received by all industries. In 1967, the coverage ratio was 89 percent. Other industries with receipts from miscellaneous publishing consisted mainly of industry 2721, Periodicals (\$33.7 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2741, these establishments accounted for 13 percent of value of receipts.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2711.--NEWSPAPERS															
1972 Census.....	8,116	2,120	348.9	3,170.8	169.8	298.8	1,537.8	6,225.6	2,045.2	8,270.1	359.6	(NA)	152.8	97	100
1971 ASM.....	(NA)	(NA)	346.4	2,868.7	164.4	302.0	1,408.6	5,536.6	1,817.5	7,354.5	270.0	3,242.9	168.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	349.1	2,715.5	168.2	308.9	1,344.1	5,194.8	1,768.3	6,966.6	267.8	3,105.8	183.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	360.5	2,614.2	181.5	321.7	1,316.5	5,028.6	1,790.9	6,822.8	263.3	3,022.0	200.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	338.5	2,368.7	169.7	303.0	1,187.7	4,519.1	1,672.1	6,191.2	238.4	2,827.1	178.0	(NA)	(NA)
1967 Census.....	8,094	2,029	335.9	2,223.7	169.2	302.0	1,121.5	4,184.7	1,573.6	5,757.1	246.7	2,626.7	162.5	97	100
1966 ASM.....	(NA)	(NA)	333.5	2,121.2	167.6	313.5	1,091.4	4,012.2	1,508.8	5,520.2	227.8	(NA)	148.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	327.7	2,066.4	167.6	303.8	1,043.6	3,731.7	1,423.6	5,156.1	170.0	(NA)	113.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	317.9	1,901.1	166.3	319.9	997.8	3,460.8	1,359.2	4,820.4	121.6	2,081.5	120.4	(NA)	(NA)
1963 Census.....	8,331	1,865	306.4	1,784.6	160.1	294.5	935.2	3,201.9	1,281.1	4,483.6	135.2	1,954.3	115.3	96	100
1962 ASM.....	(NA)	(NA)	310.7	1,761.0	163.2	297.1	929.5	3,051.6	1,274.3	4,319.5	123.9	1,851.3	109.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	308.5	1,712.1	160.7	297.7	900.0	2,939.5	1,248.9	4,182.0	134.5	(NA)	111.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	307.4	1,673.9	159.9	299.6	882.9	2,924.5	1,212.6	4,136.6	122.8	(NA)	123.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	300.9	1,601.3	158.1	292.3	841.1	2,776.2	1,172.3	3,946.6	147.6	(NA)	131.6	(NA)	(NA)
1958 Census.....	8,279	1,736	295.6	1,499.9	154.7	278.0	779.0	2,528.8	1,112.4	3,628.0	148.2	(NA)	131.8	96	100
INDUSTRY 2721.--PERIODICALS															
1972 Census.....	2,535	453	66.6	709.7	11.2	21.1	84.6	2,114.5	1,410.0	3,521.3	56.8	(NA)	197.9	89	95
1971 ASM.....	(NA)	(NA)	71.5	684.8	13.6	25.6	101.7	2,008.6	1,239.3	3,238.6	107.0	658.1	192.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	77.1	699.5	14.8	29.8	112.6	1,986.5	1,198.0	3,195.1	*73.7	631.0	196.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	85.1	727.7	16.0	29.1	105.6	2,118.0	1,360.3	3,468.4	73.6	677.5	222.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	83.5	692.7	16.9	29.8	94.9	2,048.2	1,306.7	3,341.9	62.1	657.2	207.7	(NA)	(NA)
1967 Census.....	2,510	454	79.1	633.7	14.5	25.2	80.5	1,868.7	1,234.1	3,095.9	58.0	607.3	164.9	89	97
1966 ASM.....	(NA)	(NA)	71.6	547.9	14.0	26.5	78.3	1,705.8	1,028.0	2,717.9	34.4	(NA)	175.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	70.0	510.0	14.0	26.5	79.1	1,602.8	1,034.2	2,625.6	22.8	(NA)	148.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	67.3	489.5	12.2	22.6	65.7	1,426.4	1,011.6	2,464.4	*37.6	379.7	138.1	(NA)	(NA)
1963 Census.....	2,630	402	67.7	461.1	12.3	22.1	65.6	1,349.0	958.1	2,295.7	33.8	346.2	131.4	91	96
1962 ASM.....	(NA)	(NA)	69.6	485.9	12.1	21.6	64.8	1,336.5	906.1	2,198.5	29.2	319.4	113.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	68.2	467.2	11.8	21.3	62.7	1,284.2	936.0	2,181.1	24.5	(NA)	104.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	67.7	447.6	12.2	22.4	63.3	1,211.4	922.8	2,132.6	*45.8	(NA)	109.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	67.4	419.3	12.4	22.4	62.0	1,153.9	833.0	1,981.2	*43.1	(NA)	93.8	(NA)	(NA)
1958 Census.....	2,332	390	66.7	386.7	11.7	21.2	56.8	974.5	764.7	1,729.5	35.1	(NA)	94.3	93	97
INDUSTRY 2731.--BOOK PUBLISHING															
1972 Census.....	1,205	307	57.1	557.6	16.2	31.4	128.6	1,935.8	959.9	2,856.8	48.4	(NA)	629.4	93	86
1971 ASM.....	(NA)	(NA)	59.9	535.7	17.4	33.3	131.0	1,879.1	892.5	2,739.3	60.0	456.4	649.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	55.7	480.1	14.6	29.5	104.7	1,644.8	818.7	2,434.2	52.3	418.9	594.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	56.4	457.0	14.2	26.5	89.9	1,563.1	824.5	2,417.2	40.9	343.7	590.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	51.9	398.1	13.8	25.7	81.8	1,366.9	711.0	2,099.4	35.3	333.7	535.7	(NA)	(NA)
1967 Census.....	1,022	287	52.0	389.9	13.3	24.8	76.6	1,456.6	762.8	2,134.8	55.1	337.6	573.2	95	86
1966 ASM.....	(NA)	(NA)	54.0	359.8	12.2	23.6	61.0	1,325.7	749.8	1,996.3	47.9	(NA)	514.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	50.4	322.5	11.5	22.7	55.9	1,115.1	672.1	1,767.1	29.6	(NA)	418.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	53.1	330.9	14.5	27.6	71.9	1,099.8	655.4	1,728.6	*28.7	280.9	405.9	(NA)	(NA)
1963 Census.....	993	256	46.8	280.7	11.8	23.4	59.5	995.7	582.3	1,534.6	25.4	253.9	362.4	93	88
1962 ASM.....	(NA)	(NA)	47.0	277.4	12.1	28.0	61.9	953.9	581.0	1,527.8	*25.2	233.6	279.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	43.9	249.0	11.8	27.7	58.7	882.4	525.5	1,382.3	16.0	(NA)	262.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	42.4	233.3	12.5	27.6	57.6	834.1	497.9	1,303.3	17.0	(NA)	245.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	39.9	211.2	11.8	24.6	53.8	721.2	450.6	1,148.7	10.1	(NA)	223.2	(NA)	(NA)
1958 Census.....	903	233	38.5	191.9	11.0	21.1	44.5	616.2	413.3	1,033.1	13.1	(NA)	204.8	92	90
INDUSTRY 2732.--BOOK PRINTING															
1972 Census.....	700	287	40.9	361.2	33.0	64.5	269.0	604.5	332.4	937.6	33.9	(NA)	99.4	83	73
1971 ASM.....	(NA)	(NA)	44.2	358.2	35.4	68.4	266.9	598.6	297.1	891.4	50.1	456.4	102.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	45.5	356.7	36.4	71.4	265.5	609.6	313.0	913.4	33.4	418.9	103.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	44.2	336.1	35.3	72.5	254.0	597.2	303.1	883.9	47.1	451.0	105.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	45.0	328.5	36.0	73.6	247.6	577.4	288.8	862.0	35.1	429.1	86.4	(NA)	(NA)
1967 Census.....	744	316	44.7	297.9	36.7	73.4	227.9	510.9	273.0	787.4	45.9	410.2	68.4	81	70
1966 ASM.....	(NA)	(NA)	41.1	284.3	34.4	72.7	221.9	460.8	258.2	709.3	42.1	(NA)	74.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	38.7	255.5	32.0	67.6	198.6	411.2	227.5	632.7	38.2	(NA)	58.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	35.7	226.9	29.2	62.4	178.8	385.2	202.8	585.5	31.8	281.0	48.4	(NA)	(NA)
1963 Census.....	683	275	36.1	214.2	29.6	59.6	164.6	358.3	190.0	546.6	24.9	249.1	48.0	78	69
1962 ASM.....	(NA)	(NA)	34.2	197.8	28.7	57.7	153.7	318.2	165.1	478.8	*19.5	228.8	49.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	33.0	189.2	27.9	57.5	148.2	322.7	165.2	483.8	*17.6	(NA)	45.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	31.4	173.3	26.6	53.7	135.5	297.8	164.7	462.9	*16.6	(NA)	43.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	29.3	160.4	24.7	49.9	125.5	260.2	143.4	395.0	*14.6	(NA)	44.9	(NA)	(NA)
1958 Census.....	791	205	28.6	144.0	23.7	46.8	112.3	226.8	130.4	357.7	10.8	(NA)	35.3	72	60

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)															
Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2741.--MISCELLANEOUS PUBLISHING															
1972 Census.....	2,041	272	38.8	331.2	19.1	31.7	135.0	775.7	296.1	1,070.2	22.8	(NA)	68.1	95	93
1971 ASM.....	(NA)	(NA)	31.4	251.0	13.5	25.1	101.0	554.9	211.1	764.2	19.9	153.3	55.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	32.5	246.5	15.5	27.7	105.6	523.4	203.9	724.0	16.7	137.5	51.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	36.3	248.9	18.0	30.4	102.0	495.4	232.2	726.9	13.0	126.9	52.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	33.7	226.3	16.5	28.1	94.0	442.9	217.6	656.9	12.4	118.1	50.1	(NA)	(NA)
1967 Census.....	1,493	204	31.1	197.4	15.0	25.6	79.7	417.5	184.5	605.3	10.0	106.0	41.1	93	89
1966 ASM.....	(NA)	(NA)	24.3	156.3	11.2	20.4	58.0	321.2	176.9	495.2	*6.1	(NA)	38.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	24.3	147.4	11.0	20.5	55.8	299.3	165.1	462.4	4.1	(NA)	33.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	23.0	137.9	9.8	18.5	49.0	282.3	144.8	424.9	5.9	60.2	28.0	(NA)	(NA)
1963 Census.....	1,374	177	22.6	130.4	9.8	18.7	48.8	252.9	137.1	389.6	7.1	57.7	27.2	92	84
1962 ASM.....	(NA)	(NA)	20.6	117.0	9.4	16.0	43.6	239.8	125.9	363.6	*7.2	53.3	21.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	21.2	115.9	8.9	15.7	43.0	245.2	124.0	367.5	*5.3	(NA)	21.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	20.3	108.5	9.4	15.7	42.1	227.6	118.5	345.0	*5.0	(NA)	20.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	19.8	101.1	8.7	13.6	36.7	213.2	113.1	324.5	*19.0	(NA)	20.3	(NA)	(NA)
1958 Census.....	1,104	163	19.3	91.8	6.5	12.0	28.6	199.2	109.0	307.9	6.0	(NA)	21.0	89	87

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2711	Industry 2721	Industry 2731	Industry 2732	Industry 2741
1972.....	7,461	2,451	1,120	674	1,964
1967.....	7,589	2,430	963	720	1,433
1963.....	7,982	2,562	936	662	1,308

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)											
Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of receipts	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 2711.--NEWSPAPERS											
1972 Census.....	9,087	(NA)	49	1,759	5.15	.25	.63	(NA)	17,843	51	20.84
1971 ASM.....	8,281	9,361	48	1,837	4.66	.25	.64	.44	15,983	52	18.33
1970 ASM.....	7,779	8,897	48	1,837	4.35	.25	.64	.45	14,881	52	16.82
1969 ASM.....	7,252	8,383	50	1,772	4.09	.26	.65	.44	13,949	52	15.63
1968 ASM.....	6,998	8,350	50	1,786	3.92	.27	.65	.46	13,350	52	14.91
1967 Census.....	6,623	7,820	50	1,785	3.71	.27	.66	.46	12,457	53	13.85
1966 ASM.....	6,361	(NA)	50	1,871	3.48	.27	.66	(NA)	12,031	53	12.80
1965 ASM.....	6,122	(NA)	51	1,813	3.43	.28	.67	(NA)	11,386	54	12.28
1964 ASM.....	5,980	6,550	52	1,923	3.12	.28	.68	.43	10,887	55	10.82
1963 Census.....	5,824	6,380	52	1,840	3.17	.29	.68	.44	10,449	56	10.87
1962 ASM.....	5,667	5,960	53	1,821	3.13	.30	.70	.43	9,820	58	12.07
1961 ASM.....	5,551	(NA)	52	1,853	3.02	.30	.71	(NA)	9,530	58	9.87
1960 ASM.....	5,445	(NA)	52	1,874	2.95	.29	.70	(NA)	9,513	57	9.76
1959 ASM.....	5,321	(NA)	53	1,849	2.88	.30	.70	(NA)	9,226	58	9.50
1958 Census.....	5,074	(NA)	52	1,798	2.80	.31	.72	(NA)	8,554	59	9.10

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of receipts (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2721.--PERIODICALS											
1972 Census.....	10,656	(NA)	17	1,884	4.01	.40	.60	(NA)	31,749	34	100.21
1971 ASM.....	9,578	9,204	19	1,882	3.97	.38	.59	.20	28,092	34	78.46
1970 ASM.....	9,073	8,184	19	2,014	3.78	.38	.59	.19	25,765	35	66.66
1969 ASM.....	8,551	7,960	18	1,819	3.63	.39	.60	.19	24,888	34	72.78
1968 ASM.....	8,296	7,870	20	1,763	3.19	.39	.60	.20	24,529	34	68.73
1967 Census.....	8,015	7,680	18	1,734	3.20	.40	.60	.20	23,635	34	74.22
1966 ASM.....	7,650	(NA)	20	1,891	2.95	.38	.58	(NA)	23,818	32	64.27
1965 ASM.....	7,282	(NA)	20	1,889	2.99	.39	.59	(NA)	22,888	32	60.49
1964 ASM.....	7,277	5,640	18	1,855	2.90	.41	.61	.15	21,203	34	62.98
1963 Census.....	6,808	5,110	18	1,806	2.96	.42	.62	.15	19,918	34	60.95
1962 ASM.....	6,977	4,590	17	1,784	2.99	.41	.63	.15	19,192	36	61.77
1961 ASM.....	6,852	(NA)	17	1,816	2.94	.43	.64	(NA)	18,834	36	60.17
1960 ASM.....	6,614	(NA)	18	1,831	2.83	.43	.64	(NA)	17,900	37	54.05
1959 ASM.....	6,217	(NA)	18	1,802	2.77	.42	.63	(NA)	17,111	36	51.59
1958 Census.....	5,793	(NA)	18	1,811	2.68	.44	.67	(NA)	14,600	40	45.94
INDUSTRY 2731.--BOOK PUBLISHING											
1972 Census.....	9,765	(NA)	28	1,938	4.09	.34	.53	(NA)	33,902	29	61.65
1971 ASM.....	8,943	7,619	29	1,914	3.93	.33	.52	.17	31,371	29	56.43
1970 ASM.....	8,619	7,521	26	2,021	3.55	.34	.53	.17	29,530	29	55.76
1969 ASM.....	8,102	6,090	25	1,866	3.39	.34	.53	.14	27,715	29	58.98
1968 ASM.....	7,671	6,430	27	1,862	3.18	.34	.53	.16	26,337	29	53.19
1967 Census.....	7,500	6,490	26	1,867	3.09	.36	.54	.16	28,012	27	58.73
1966 ASM.....	6,660	(NA)	23	1,934	2.58	.38	.56	(NA)	24,539	27	56.14
1965 ASM.....	6,402	(NA)	23	1,980	2.47	.38	.56	(NA)	22,138	29	49.16
1964 ASM.....	6,235	5,290	27	1,899	2.61	.38	.57	.16	20,721	30	39.88
1963 Census.....	5,996	5,430	25	1,986	2.54	.38	.56	.17	21,271	28	42.46
1962 ASM.....	5,901	4,970	26	2,320	2.21	.38	.56	.15	20,288	29	34.06
1961 ASM.....	5,676	(NA)	27	2,351	2.12	.38	.56	(NA)	20,115	28	31.80
1960 ASM.....	5,501	(NA)	30	2,201	2.09	.38	.56	(NA)	19,663	28	30.23
1959 ASM.....	5,293	(NA)	30	2,088	2.18	.39	.58	(NA)	18,069	29	29.27
1958 Census.....	4,983	(NA)	29	1,913	2.11	.40	.59	(NA)	16,005	31	29.22
INDUSTRY 2732.--BOOK PRINTING											
1972 Census.....	8,831	(NA)	81	1,955	4.17	.35	.74	(NA)	14,780	60	9.37
1971 ASM.....	8,142	10,326	81	1,932	3.94	.35	.74	.51	13,477	60	8.65
1970 ASM.....	7,846	9,207	80	1,960	3.74	.34	.73	.46	13,409	59	8.51
1969 ASM.....	7,604	10,200	80	2,054	3.50	.34	.72	.51	13,511	56	8.24
1968 ASM.....	7,300	9,540	80	2,044	3.36	.34	.72	.50	12,831	57	7.85
1967 Census.....	6,669	9,180	82	1,998	3.11	.35	.73	.52	11,436	58	6.96
1966 ASM.....	6,917	(NA)	84	2,114	3.05	.36	.76	(NA)	11,211	62	6.33
1965 ASM.....	6,596	(NA)	83	2,110	2.94	.36	.76	(NA)	10,617	62	6.09
1964 ASM.....	6,357	7,870	82	2,141	2.86	.35	.73	.48	10,792	59	6.17
1963 Census.....	5,933	6,900	82	2,009	2.76	.35	.74	.46	9,925	60	6.02
1962 ASM.....	5,792	6,690	84	2,009	2.66	.34	.76	.48	9,317	62	5.51
1961 ASM.....	5,732	(NA)	85	2,057	2.58	.34	.73	(NA)	9,779	59	5.62
1960 ASM.....	5,515	(NA)	85	2,021	2.53	.36	.73	(NA)	9,477	58	5.55
1959 ASM.....	5,470	(NA)	84	2,024	2.51	.36	.77	(NA)	8,873	62	5.21
1958 Census.....	5,030	(NA)	83	1,970	2.40	.36	.77	(NA)	7,923	63	4.85
INDUSTRY 2741.--MISCELLANEOUS PUBLISHING											
1972 Census.....	8,536	(NA)	49	1,660	4.26	.28	.59	(NA)	19,992	43	24.47
1971 ASM.....	7,994	4,882	43	1,859	4.02	.28	.60	.20	17,672	45	22.11
1970 ASM.....	7,585	4,231	48	1,787	3.81	.28	.62	.19	16,105	47	18.90
1969 ASM.....	6,857	3,500	50	1,689	3.36	.32	.66	.17	13,647	50	16.30
1968 ASM.....	6,715	3,500	49	1,703	3.35	.33	.68	.18	13,142	51	15.76
1967 Census.....	6,354	3,410	48	1,715	3.11	.30	.63	.18	13,443	47	16.28
1966 ASM.....	6,441	(NA)	46	1,831	2.84	.36	.67	(NA)	13,233	49	15.72
1965 ASM.....	6,062	(NA)	45	1,863	2.72	.36	.68	(NA)	12,313	49	14.60
1964 ASM.....	5,994	2,620	43	1,882	2.65	.34	.67	.14	12,267	49	15.26
1963 Census.....	5,784	2,550	43	1,907	2.61	.35	.69	.15	11,216	52	13.53
1962 ASM.....	5,666	2,590	46	1,692	2.73	.35	.67	.15	11,616	49	15.00
1961 ASM.....	5,481	(NA)	42	1,754	2.74	.34	.65	(NA)	11,590	47	15.62
1960 ASM.....	5,333	(NA)	46	1,673	2.67	.34	.66	(NA)	11,191	48	14.45
1959 ASM.....	5,108	(NA)	44	1,573	2.70	.35	.66	(NA)	10,764	47	15.64
1958 Census.....	4,754	(NA)	34	1,840	2.38	.35	.65	(NA)	10,320	46	16.56

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2711-- NEWSPAPER													
United States.....	8,116	2,120	348.9	3,170.8	169.8	298.8	1,537.8	6,225.6	2,045.2	8,270.1	359.6	335.9	4,184.7
Northeast Region.....	1,424	477	92.9	939.8	46.1	79.8	474.0	1,715.0	551.4	2,266.3	74.5	93.1	1,172.3
New England Division.....	409	163	25.6	231.8	12.2	22.2	111.3	440.7	119.3	560.1	18.2	24.5	299.3
Maine.....	46	13	1.9	14.2	1.0	1.8	7.4	26.1	5.8	32.0	.7	1.7	18.2
New Hampshire.....E1	41	19	1.4	10.7	.7	1.3	5.3	19.5	3.9	23.4	1.2	1.2	13.0
Vermont.....E2	23	12	.8	5.3	.4	.8	2.7	11.6	2.5	14.0	.5	.6	6.6
Massachusetts.....	191	70	13.2	128.2	5.9	11.1	59.5	249.2	68.6	317.9	10.0	13.6	173.9
Rhode Island.....	24	9	1.9	20.8	1.1	1.8	10.9	36.2	9.3	45.5	.7	1.8	22.5
Connecticut.....	84	40	6.4	52.6	3.0	5.4	25.4	98.2	29.0	127.2	5.1	5.6	65.2
Middle Atlantic Division.....	1,015	314	67.3	708.0	33.9	57.5	362.7	1,274.3	432.1	1,706.2	56.2	70.5	893.5
New York.....	491	126	33.0	390.6	17.7	29.5	211.4	686.2	243.0	929.1	28.2	38.0	494.2
New Jersey.....	210	63	11.2	99.9	4.2	7.4	40.6	215.4	60.5	275.8	9.0	10.9	140.1
Pennsylvania.....	314	125	23.0	217.5	11.9	20.6	110.6	372.8	128.5	501.3	19.0	21.7	259.2
North Central Region...	2,929	673	102.1	925.1	50.6	89.8	460.1	1,807.8	556.6	2,363.9	107.5	98.1	1,227.4
East North Central Div...	1,488	446	72.7	680.6	35.2	62.5	335.4	1,322.9	409.5	1,731.9	71.1	69.1	889.4
Ohio.....	323	121	19.2	185.1	9.6	17.7	93.3	346.7	110.5	457.3	14.7	18.2	238.1
Indiana.....	223	66	9.3	79.3	4.4	7.9	39.4	151.9	41.0	192.8	8.0	9.4	116.1
Illinois.....	410	126	22.2	213.5	11.6	19.4	109.0	417.8	133.1	550.7	11.2	21.6	271.8
Michigan.....	294	76	13.3	137.4	6.2	11.2	64.1	277.5	82.1	359.3	28.0	11.9	178.5
Wisconsin.....	238	57	8.5	65.2	3.5	6.3	29.7	129.0	42.8	171.7	9.2	8.0	84.9
West North Central Div...	1,441	227	29.4	244.6	15.3	27.2	124.6	484.9	147.1	632.0	36.5	29.0	339.5
Minnesota.....	276	37	6.9	63.4	3.2	5.4	29.1	120.3	36.6	156.9	4.2	6.8	81.7
Iowa.....E1	299	48	5.6	41.4	2.8	4.8	20.0	85.7	20.8	106.5	9.0	5.8	63.8
Missouri.....	299	55	8.2	78.3	4.5	8.4	43.2	151.6	55.4	207.0	13.3	8.0	104.8
North Dakota.....E1	71	10	1.0	7.5	.6	1.0	4.2	14.8	3.1	17.9	1.5	1.2	11.7
South Dakota.....E1	113	11	1.1	7.1	.7	1.2	3.9	15.9	3.6	19.5	1.8	1.0	11.3
Nebraska.....E1	161	25	3.0	21.6	1.7	3.0	11.1	47.2	14.5	61.7	3.3	2.6	30.1
Kansas.....E1	222	41	3.6	25.2	1.9	3.3	13.2	49.4	13.1	62.5	3.5	3.5	36.1
South Region.....	2,498	575	93.9	758.4	45.5	82.3	348.1	1,581.4	541.7	2,123.0	105.1	82.9	963.4
South Atlantic Division..	986	268	49.4	423.1	23.2	42.2	188.4	855.0	290.4	1,145.6	54.1	44.1	516.1
Delaware.....	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	10.5
Maryland.....	78	23	5.2	47.2	2.5	4.4	20.8	87.0	28.6	115.6	1.4	4.7	60.8
District of Columbia.....	19	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	69.8
Virginia.....	122	43	6.4	48.8	2.9	5.4	19.8	93.7	28.9	122.6	6.9	5.3	56.5
West Virginia.....	85	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	24.7
North Carolina.....	170	58	6.7	50.3	3.5	6.4	23.5	106.3	30.2	136.5	5.3	5.9	62.7
South Carolina.....	86	19	2.6	18.7	1.2	2.1	7.5	43.0	11.9	54.9	3.4	2.4	28.1
Georgia.....	171	34	5.4	44.2	2.7	5.3	23.0	102.1	36.8	138.9	5.6	5.0	60.2
Florida.....	242	66	14.0	114.3	5.9	10.9	45.4	267.1	92.4	359.5	19.8	12.5	142.8
East South Central Div...	534	111	15.3	118.0	7.8	14.0	54.1	245.1	82.4	327.3	15.0	13.2	154.3
Kentucky.....E1	157	28	3.6	30.0	1.8	3.3	12.5	61.1	23.0	84.1	2.7	3.2	37.4
Tennessee.....	149	34	6.1	48.2	3.1	5.5	23.0	90.8	32.2	122.7	6.2	5.5	59.2
Alabama.....E1	123	26	3.4	26.8	1.7	3.0	12.5	64.2	18.7	82.8	3.0	3.0	41.0
Mississippi.....E1	105	23	2.1	12.9	1.2	2.1	6.1	29.1	8.6	37.7	3.0	1.6	16.7
West South Central Div...	978	196	29.2	217.2	14.6	26.2	105.7	481.2	168.8	650.1	36.1	25.5	293.0
Arkansas.....E1	113	26	2.4	16.8	1.4	2.7	8.4	35.6	10.4	46.0	6.4	2.2	21.1
Louisiana.....	138	26	4.3	31.5	2.2	3.9	16.3	73.1	26.4	99.5	2.0	3.5	48.8
Oklahoma.....	189	37	4.5	32.4	2.3	4.0	14.9	68.0	22.1	90.0	7.0	4.4	45.5
Texas.....	538	107	18.0	136.6	8.7	15.7	66.0	304.6	110.1	414.7	20.7	15.5	177.7
West Region.....	1,265	395	60.0	547.5	27.7	46.9	255.6	1,121.5	395.6	1,517.0	72.5	61.8	821.5
Mountain Division.....	443	111	14.7	119.1	7.3	13.2	60.2	257.2	94.0	351.0	22.8	13.5	156.6
Montana.....E1	63	11	1.1	8.3	.6	1.0	4.3	18.0	4.1	22.1	1.1	1.3	13.9
Idaho.....	57	12	1.2	8.5	.6	1.0	4.4	17.8	4.3	22.1	1.9	1.2	11.8
Wyoming.....E2	38	9	.6	3.9	.3	.6	2.1	8.5	1.5	10.0	.9	.5	5.1
Colorado.....	112	26	4.9	44.7	2.5	4.9	23.7	80.1	27.8	108.1	5.8	4.4	44.9
New Mexico.....	45	16	1.3	9.6	.6	1.0	4.2	23.2	5.6	28.8	4.4	1.1	12.7
Arizona.....	60	21	3.5	27.8	1.5	2.6	13.2	70.7	23.6	94.3	6.2	2.8	35.6
Utah.....	38	8	1.1	8.4	.5	.9	3.5	20.2	21.9	41.7	2.0	1.3	20.6
Nevada.....E2	30	8	1.0	7.8	.7	1.3	4.9	18.6	5.3	23.9	.6	.9	11.9
Pacific Division.....	822	284	45.3	428.4	20.4	33.7	195.4	864.3	301.6	1,166.0	49.7	48.0	662.6
Washington.....	159	38	6.6	62.3	3.0	4.7	29.8	110.2	33.8	144.0	9.2	5.8	73.5
Oregon.....	102	28	3.6	29.5	1.6	2.7	12.2	62.4	21.1	83.5	3.5	3.3	40.5
California.....	523	204	33.3	318.6	15.0	24.9	145.8	654.7	237.0	891.8	29.6	37.3	526.1
Alaska.....E1	19	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.7
Hawaii.....	19	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	17.8

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2711- NEWSPAPERS--Continued													
2711-11-- DAILY													
United States.....	1,457	1,344	283.9	2,766.3	133.3	238.9	1,349.5	5,393.9	1,771.3	7,164.9	310.8	270.9	3,564.2
Northeast Region.....	293	277	82.9	843.8	37.8	66.2	430.5	1,521.9	487.2	2,009.1	63.3	75.9	1,035.3
New England Division.....	102	94	21.2	206.2	9.8	18.3	99.1	390.4	104.1	495.0	15.9	21.0	270.6
Maine.....	7	7	1.5	11.9	.8	1.3	6.2	21.9	4.5	26.4	.6	1.3	15.6
New Hampshire.....	10	9	.9	8.1	.5	.9	4.0	15.2	2.7	17.9	.9	.8	10.2
Vermont.....	8	8	.6	4.3	.4	.6	2.2	9.8	1.9	11.8	.4	.5	5.7
Massachusetts.....	46	41	11.2	115.6	4.8	9.4	53.6	223.5	61.0	284.6	8.8	11.9	158.4
Rhode Island.....	7	6	1.8	19.7	1.0	1.6	10.4	33.4	8.6	42.0	.6	1.6	21.2
Connecticut.....	24	23	5.3	46.5	2.5	4.5	22.6	86.6	25.7	112.4	4.6	4.8	59.5
Middle Atlantic Division...	191	183	56.3	637.7	28.1	47.8	331.4	1,131.5	382.8	1,514.2	47.4	54.9	764.7
New York.....	70	64	28.1	359.4	14.9	24.7	197.3	622.9	221.8	844.7	23.2	28.7	423.3
New Jersey.....	29	29	8.6	83.3	3.1	5.7	34.6	182.2	49.9	232.0	7.3	7.7	112.9
Pennsylvania.....	92	90	19.5	195.1	10.0	17.4	99.5	326.4	110.0	437.4	16.9	18.5	228.5
North Central Region.....	482	444	80.5	786.2	38.2	70.0	394.9	1,517.4	463.3	1,980.5	92.4	78.6	1,052.8
East North Central Div....	302	282	58.6	586.7	27.5	50.2	293.2	1,124.3	347.1	1,471.3	60.5	57.2	784.9
Ohio.....	90	88	16.8	170.7	8.2	15.5	87.1	318.7	102.1	420.8	12.4	15.8	219.4
Indiana.....	61	53	7.6	68.1	3.5	6.4	34.0	127.9	33.4	161.0	7.0	8.1	105.8
Illinois.....	73	66	16.9	174.6	8.7	14.9	91.7	345.5	107.3	452.8	8.2	17.1	230.0
Michigan.....	48	46	10.7	119.4	4.9	9.0	56.4	227.7	70.5	298.5	25.2	9.9	158.0
Wisconsin.....	30	29	6.6	53.9	2.3	4.3	24.0	104.5	33.9	138.4	7.8	6.3	71.7
West North Central Div....	180	162	21.9	199.4	10.7	19.8	101.7	393.0	116.1	509.2	31.7	21.4	267.9
Minnesota.....	22	21	5.0	50.1	2.1	3.6	22.6	96.6	29.1	125.8	3.2	5.0	66.7
Iowa.....	36	34	4.1	33.2	1.9	3.3	15.6	68.1	15.5	83.6	8.0	4.3	51.9
Missouri.....	43	38	6.5	67.4	3.5	6.7	37.8	127.4	46.1	173.6	12.3	6.6	90.8
North Dakota.....	10	10	.8	6.4	.4	.8	3.6	12.5	2.3	14.8	1.3	.9	9.6
South Dakota.....	11	10	.7	5.0	.4	.8	2.8	11.7	2.2	13.9	1.5	.7	8.5
Nebraska.....	18	16	2.1	16.8	1.1	2.0	8.6	37.2	10.9	48.1	2.6	1.0	10.9
Kansas.....	40	33	2.7	20.5	1.4	2.4	10.7	39.4	10.1	49.5	2.8	2.8	29.5
South Region.....	438	395	78.2	668.5	36.1	66.5	309.9	1,393.0	479.6	1,873.2	93.7	67.6	835.0
South Atlantic Division....	169	172	41.2	369.3	18.4	34.2	166.5	762.4	259.3	1,021.9	48.5	35.3	442.7
Delaware.....	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Maryland.....	9	8	3.9	40.3	1.8	3.3	17.8	74.0	23.7	97.6	.8	3.9	54.3
District of Columbia.....	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Virginia.....	23	22	5.0	40.8	2.2	4.2	16.2	78.5	23.8	102.4	5.3	4.1	48.1
West Virginia.....	18	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	22.4
North Carolina.....	39	39	5.3	42.5	2.6	4.9	19.8	91.7	25.7	117.4	4.1	4.5	52.9
South Carolina.....	13	11	2.1	15.2	.9	1.5	5.8	36.6	9.8	46.4	3.0	2.0	25.0
Georgia.....	23	23	4.4	37.7	2.1	4.1	19.6	90.2	32.4	122.6	4.9	3.5	47.5
Florida.....	39	39	12.1	103.5	4.8	9.2	40.6	243.3	84.6	327.9	18.9	9.6	114.5
East South Central Div....	88	83	12.3	100.5	5.9	10.7	45.3	207.7	70.1	278.3	12.6	10.8	134.3
Kentucky.....	23	20	2.7	24.7	1.2	2.4	9.9	49.6	18.8	68.5	1.9	2.6	32.1
Tennessee.....	28	27	5.4	44.1	2.6	4.7	21.0	81.6	29.4	110.7	5.5	4.7	53.0
Alabama.....	19	18	2.7	22.2	1.2	2.1	10.0	54.2	15.4	69.7	2.6	2.3	36.3
Mississippi.....	18	18	1.5	9.4	.8	1.5	4.4	22.2	6.5	28.7	2.6	1.2	13.0
West South Central Div....	181	150	22.5	193.9	11.7	21.0	89.0	426.6	145.0	579.8	32.5	21.6	258.0
Arkansas.....	27	21	1.8	13.6	1.0	2.0	6.7	28.4	8.1	36.5	6.0	1.8	17.6
Louisiana.....	21	18	3.4	26.1	1.7	3.2	14.4	63.6	23.4	87.0	1.3	2.8	42.5
Oklahoma.....	45	31	3.9	28.9	1.9	3.3	13.1	59.8	19.5	79.3	6.6	3.8	40.1
Texas.....	88	80	15.4	122.9	7.2	13.2	59.0	271.1	99.2	370.4	18.9	13.1	157.8
West Region.....	244	228	47.8	467.8	21.1	36.2	219.0	961.7	341.1	1,297.3	61.7	48.8	641.0
Mountain Division.....	84	72	11.3	96.8	5.1	9.8	48.4	215.7	81.4	296.9	17.7	11.1	136.4
Montana.....	9	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	11.6
Idaho.....	11	10	.7	4.9	.3	.5	2.2	10.5	1.9	12.4	.3	.9	9.9
Wyoming.....	6	6	.3	2.4	.1	.2	1.1	5.2	.6	5.8	.8	BB	(D)
Colorado.....	22	17	3.9	37.0	1.9	3.9	19.9	68.2	24.5	92.8	4.5	3.6	38.5
New Mexico.....	16	12	1.0	7.9	.4	.8	3.5	19.7	4.5	24.2	4.3	1.0	11.5
Arizona.....	9	9	2.9	24.3	1.1	2.0	11.3	64.0	21.4	85.4	5.5	EE	(D)
Utah.....	5	5	.9	7.1	.4	.7	2.8	17.3	21.0	38.0	1.7	1.1	19.0
Nevada.....	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division.....	160	156	36.5	371.0	15.9	26.5	170.5	744.6	259.7	1,005.7	44.0	37.6	504.6
Washington.....	22	22	5.2	53.3	2.2	3.5	25.3	93.1	27.5	120.6	8.4	4.8	64.2
Oregon.....	18	17	2.6	23.7	1.0	1.8	9.5	50.9	16.8	67.7	2.7	2.4	33.6
California.....	110	107	27.0	278.4	12.0	20.1	128.9	570.0	207.2	777.3	25.7	29.2	388.1
Alaska.....	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Hawaii.....	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2711- NEWSPAPERS--Continued													
2711-13-- WEEKLY AND OTHERS													
United States.....	6,659	776	65.1	404.5	36.6	59.9	188.3	831.6	274.0	1,105.2	48.8	65.0	620.5
Northeast Region.....	1,131	200	15.5	96.0	8.2	13.6	43.5	193.0	64.1	257.2	11.2	17.2	137.0
New England Division.....	307	69	4.4	25.6	2.4	3.9	12.1	50.3	14.9	65.1	2.4	3.5	28.7
Maine.....	39	6	.4	2.3	.3	.5	1.2	4.3	1.3	5.6	.2	.4	2.6
New Hampshire.....	31	10	.5	2.5	.3	.4	1.3	4.3	1.2	5.5	.3	.4	2.8
Massachusetts.....	145	29	2.0	12.6	1.2	1.7	5.9	25.6	7.6	33.3	1.2	1.7	15.5
Rhode Island.....	17	3	.2	1.0	.1	.1	.4	2.7	.8	3.5	.1	(NA)	(NA)
Connecticut.....	60	17	1.0	6.1	.5	.9	2.8	11.5	3.4	14.9	.4	.8	5.6
Middle Atlantic Division..	824	131	11.2	73.9	5.8	9.7	31.3	142.8	49.3	192.0	8.9	13.7	108.3
New York.....	421	62	4.9	31.3	2.9	4.8	14.1	63.3	21.2	84.5	5.3	7.3	50.4
New Jersey.....	181	34	2.7	16.6	1.1	1.8	6.4	33.1	10.6	43.7	1.6	3.2	27.3
Pennsylvania.....	222	35	3.5	22.4	1.8	3.3	11.2	46.3	17.5	63.9	2.1	3.2	30.6
North Central Region....	2,449	229	21.5	139.1	12.3	19.9	65.2	290.4	93.3	383.3	15.4	19.6	174.6
East North Central Div....	1,186	164	14.0	93.9	7.6	12.5	42.2	198.6	62.3	280.5	15.0	11.9	104.5
Ohio.....	233	33	2.4	14.4	1.3	2.2	6.1	28.1	8.4	36.4	2.3	2.4	18.7
Indiana.....	162	13	1.7	11.2	.9	1.5	5.5	24.1	7.7	31.7	1.0	1.3	10.3
Illinois.....	337	60	5.3	38.9	2.9	4.5	17.3	72.2	25.8	98.0	3.0	4.5	41.8
Michigan.....	246	30	2.5	18.2	1.4	2.2	7.8	49.8	11.6	61.0	3.6	2.1	20.5
Wisconsin.....	208	28	2.0	11.3	1.2	2.0	5.7	24.4	8.9	33.3	1.4	1.6	13.2
West North Central Div....	1,261	65	7.5	45.1	4.6	7.4	22.9	91.8	31.0	122.8	4.8	7.7	70.1
Minnesota.....	254	16	1.9	13.3	1.1	1.8	6.5	23.7	7.5	31.1	1.0	1.8	15.0
Iowa.....	263	14	1.5	8.2	1.0	1.5	4.4	17.6	5.3	22.9	1.0	1.5	11.9
Missouri.....	256	17	1.7	10.9	1.0	1.7	5.4	24.2	9.3	33.5	.9	1.4	12.5
North Dakota.....	61	-	.2	1.1	.1	.2	.6	2.4	.8	3.1	.2	.3	2.1
South Dakota.....	102	1	.4	2.1	.3	.4	1.1	4.2	1.4	5.6	.4	.3	2.8
Nebraska.....	143	9	.9	4.8	.6	1.0	2.5	9.9	3.6	13.6	.7	1.6	19.2
Kansas.....	182	8	.9	4.8	.6	.9	2.5	9.9	3.1	13.0	.6	.7	6.6
South Region.....	2,060	180	15.7	89.8	9.4	15.8	43.2	188.4	61.6	250.5	11.4	15.2	128.4
South Atlantic Division...	817	106	8.1	46.6	4.7	7.9	21.8	92.7	30.6	123.8	5.6	8.8	73.4
Maryland.....	69	15	1.3	6.9	.7	1.2	3.0	13.1	4.9	18.0	.6	.8	6.5
Virginia.....	99	21	1.4	8.0	.7	1.2	3.6	15.2	5.1	20.2	1.6	1.2	8.4
West Virginia.....	67	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.4
North Carolina.....	131	19	1.4	7.8	.9	1.5	3.8	14.6	4.5	19.1	1.2	1.4	9.8
South Carolina.....	73	8	.6	3.5	.3	.6	1.7	6.4	2.1	8.6	.3	.4	3.1
Georgia.....	148	11	1.0	6.5	.7	1.1	3.4	11.9	4.4	16.3	.7	1.5	12.6
Florida.....	203	27	1.8	10.8	1.1	1.7	4.8	23.8	7.8	31.6	.9	2.9	28.4
East South Central Div....	446	28	3.0	17.6	1.9	3.3	8.7	37.5	13.3	49.8	2.4	2.5	20.0
Kentucky.....	134	8	.9	5.3	.6	.9	2.6	11.4	4.2	15.6	.8	.6	5.3
Tennessee.....	121	7	.7	4.4	.5	.8	2.1	9.2	2.8	12.0	.7	.7	6.2
Alabama.....	104	8	.7	4.6	.5	.8	2.5	10.0	3.2	13.1	.4	.6	4.8
Mississippi.....	87	5	.6	3.4	.4	.6	1.7	6.8	2.1	8.9	.4	.4	3.7
West South Central Div....	797	46	4.6	25.6	2.8	4.6	12.6	65.5	18.4	77.0	3.4	4.0	35.0
Arkansas.....	86	5	.6	3.2	.4	.7	1.8	7.2	2.3	9.5	.4	.4	3.4
Louisiana.....	117	8	.9	5.3	.4	.7	1.9	9.5	2.9	12.4	.7	.7	6.3
Oklahoma.....	144	6	.6	3.5	.4	.7	1.8	8.2	2.6	10.8	.5	.6	5.4
Texas.....	450	27	2.5	13.7	1.5	2.5	7.1	33.3	10.9	44.3	1.8	2.3	19.9
West Region.....	1,021	167	12.4	79.8	6.5	10.5	36.5	159.8	54.4	214.3	10.8	13.1	180.5
Mountain Division.....	359	39	3.5	22.3	2.2	3.4	11.8	41.5	12.6	54.1	5.1	2.7	22.6
Montana.....	54	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.3
Idaho.....	46	2	.5	3.6	.3	.5	2.2	7.3	2.4	9.7	(D)	.3	2.3
Wyoming.....	32	3	.3	1.5	.2	.3	.9	3.3	.9	4.2	.1	(NA)	(NA)
Colorado.....	90	9	1.1	7.7	.6	1.0	3.8	12.0	3.3	15.3	1.3	.7	6.4
New Mexico.....	29	4	.3	1.7	.2	.3	.7	3.5	1.1	4.6	.1	.2	1.2
Arizona.....	51	12	.6	3.6	.4	.6	1.8	6.7	2.2	8.9	.7	CC	(D)
Utah.....	33	3	.2	1.3	.1	.2	.7	2.8	.9	3.7	.2	.2	1.6
Nevada.....	24	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division.....	662	128	8.9	57.5	4.5	7.2	24.7	118.3	41.9	158.0	5.6	10.4	158.0
Washington.....	137	16	1.3	9.0	.8	1.2	4.3	17.1	6.3	23.5	.8	1.0	9.3
Oregon.....	84	11	1.0	5.8	.6	.9	2.8	11.4	4.3	15.7	.8	.9	6.9
California.....	413	97	6.2	40.2	3.0	4.8	16.9	84.7	29.8	114.5	3.9	8.1	138.0
Alaska.....	14	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Hawaii.....	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2721-- PERIODICALS													
United States.....	2,535	453	66.6	709.7	11.2	21.1	84.6	2,114.5	1,410.0	3,521.3	56.8	79.1	1,868.7
Northeast Region.....	913	186	34.2	403.2	3.7	7.3	32.6	1,326.8	895.9	2,225.4	35.0	45.9	1,241.9
New England Division.....	173	28	2.9	28.9	.5	.9	3.4	78.3	87.1	164.4	.9	2.5	39.4
New Hampshire.....	9	3	.2	1.4	.1	.2	.3	4.6	5.7	10.2	(Z)	(NA)	(NA)
Massachusetts.....E3	91	10	.8	7.9	.2	.3	1.3	18.3	8.9	27.2	.2	.8	13.2
Connecticut.....	56	14	1.8	18.6	.2	.3	1.5	53.2	71.3	123.6	.5	1.6	23.7
Middle Atlantic Division.....	740	158	31.3	374.2	3.3	6.4	29.2	1,248.5	208.9	2,061.0	34.1	43.3	1,199.4
New York.....	559	123	26.2	327.8	1.9	4.1	18.0	1,074.0	684.8	1,762.3	30.8	34.0	974.0
New Jersey.....E1	88	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	62.4
Pennsylvania.....	93	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	163.0
North Central Region...	666	149	17.6	168.6	4.4	8.6	33.5	434.5	288.4	720.9	12.7	20.6	391.6
East North Central Div...	476	114	11.5	115.3	2.5	4.9	20.5	320.6	169.4	488.5	6.4	13.5	265.3
Ohio.....	83	24	2.9	28.1	.4	.7	3.1	84.8	26.9	110.2	1.4	4.5	77.2
Indiana.....	36	6	.5	3.8	.2	.5	2.0	8.6	7.2	15.8	.3	.9	12.0
Illinois.....	244	66	6.7	71.2	1.4	2.6	11.8	198.1	120.9	319.1	4.2	7.0	151.4
Michigan.....E2	58	9	.6	5.6	.2	.4	1.4	13.2	6.6	19.8	.3	.4	11.6
Wisconsin.....E1	55	9	.7	6.4	.3	.6	2.2	15.8	7.8	23.4	.2	.8	13.1
West North Central Div...	190	35	6.1	53.3	1.9	3.7	13.1	113.9	118.9	232.5	6.3	7.2	126.4
Minnesota.....E1	49	6	.9	8.9	.2	.4	.5	25.6	8.3	33.9	(D)	CC	(D)
Iowa.....	28	5	1.8	17.0	.2	.4	1.8	34.2	80.7	114.5	(D)	FF	(D)
Missouri.....	69	19	2.9	23.9	1.3	2.7	10.1	46.8	24.5	71.0	(D)	3.2	38.0
Kansas.....E2	24	3	.3	2.2	.1	.1	.4	4.7	2.5	7.2	(D)	.3	3.6
South Region.....E1	526	65	9.8	89.9	1.9	3.2	11.0	228.8	137.1	361.6	5.9	8.5	154.2
South Atlantic Division..	297	36	6.0	61.6	.6	1.2	4.3	164.0	107.8	269.0	3.9	5.4	114.9
Maryland.....	31	7	1.8	15.4	.1	.2	.5	39.0	32.4	70.3	1.3	.6	13.4
District of Columbia.....	73	16	3.0	36.1	.1	.3	1.2	90.9	56.6	145.9	1.8	3.8	82.7
Virginia.....E3	30	3	.2	1.3	(Z)	(Z)	.1	3.7	2.2	6.0	.1	AA	(D)
North Carolina.....E4	32	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.5
Georgia.....E3	35	2	.3	2.9	-	.1	.6	6.9	3.6	10.6	.2	.4	8.7
Florida.....E1	75	4	.4	3.5	.2	.3	.9	18.4	10.6	28.8	.4	.2	5.1
East South Central Div..E1	73	14	2.6	17.4	.7	1.2	3.7	37.0	17.5	53.1	1.4	2.0	21.4
Kentucky.....E4	20	4	.3	1.9	.1	.2	.6	3.2	2.2	5.4	.1	.2	2.3
Tennessee.....	38	10	2.2	14.9	.6	1.0	3.1	31.1	14.6	44.3	1.3	1.7	18.1
West South Central Div..E2	156	15	1.3	11.1	.5	.8	3.0	27.7	11.9	39.6	.7	1.1	17.9
Oklahoma.....E1	18	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.5
Texas.....E2	99	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	9.7
West Region.....E1	430	53	5.0	48.2	1.1	2.1	7.5	124.5	88.7	213.4	3.2	4.1	81.1
Mountain Division.....E2	76	9	.8	6.5	.3	.7	2.0	19.6	8.0	27.6	.5	1.0	19.0
Colorado.....E1	30	6	.5	4.3	.2	.5	1.4	13.4	5.6	19.0	.4	.6	15.3
Pacific Division.....E1	354	44	4.1	41.7	.8	1.4	5.5	104.9	80.7	185.8	2.7	3.1	62.2
Washington.....E2	27	3	.2	1.8	(Z)	(Z)	.3	4.7	2.7	7.4	(D)	.3	3.8
California.....E1	302	38	3.8	38.6	.7	1.2	4.7	97.8	77.2	175.2	2.2	2.6	55.2
2721-11-- PUBLISHING ONLY													
United States.....	1,960	342	53.1	595.3	5.5	10.5	42.0	1,857.0	1,341.2	3,198.0	46.6	61.7	1,591.6
Northeast Region.....	730	153	30.2	365.8	2.1	4.5	18.5	1,239.8	877.9	2,119.2	32.7	40.3	1,151.0
New England Division.....	132	24	2.5	26.0	.3	.5	2.0	72.3	85.0	156.4	.8	2.2	36.1
Maine.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire.....	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts.....	72	8	.6	6.6	.1	.2	.8	15.4	8.1	23.5	.1	BB	(D)
Rhode Island.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut.....	42	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	23.7
Middle Atlantic Division.....	596	127	26.6	330.3	1.7	3.7	15.8	1,138.7	772.7	1,914.3	31.7	38.1	1,114.9
New York.....	464	106	24.2	308.9	1.3	2.9	12.1	1,033.8	677.9	1,714.9	29.6	31.2	924.6
New Jersey.....	66	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Pennsylvania.....	68	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2721-- PERIODICALS--Con.													
2721-11-- PUBLISHING ONLY--Continued													
North Central Region....	511	107	11.5	116.7	1.9	3.6	15.5	321.7	251.0	572.9	7.2	11.1	238.2
East North Central Div....	370	85	8.6	88.8	1.5	2.9	13.4	257.6	150.7	408.6	5.3	8.7	191.0
Ohio.....	61	18	1.6	15.3	.2	.2	1.2	50.1	18.9	69.2	1.1	1.6	28.8
Indiana.....	28	4	.3	2.8	.2	.4	1.4	6.8	6.0	12.8	.1	BB	(D)
Illinois.....	205	55	5.8	63.7	1.0	1.9	9.2	181.7	115.3	297.3	3.7	5.9	135.6
Michigan.....	41	3	.3	3.7	.1	.2	.8	9.4	5.2	14.6	.2	BB	(D)
Wisconsin.....	35	5	.4	3.4	.2	.3	1.0	9.5	5.3	14.8	.1	.5	8.2
West North Central Div....	141	22	2.9	27.9	.4	.7	2.1	64.1	100.3	164.3	1.0	2.4	47.3
Minnesota.....	42	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Iowa.....	21	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri.....	47	12	.7	6.2	.2	.4	.9	16.1	10.1	26.2	(D)	EE	(D)
North Dakota.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Dakota.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska.....	12	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas.....	16	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Region.....	389	46	7.8	75.4	.9	1.4	4.9	195.5	128.8	321.8	4.4	7.3	137.5
South Atlantic Division...	219	28	5.4	56.7	.4	.6	2.3	154.0	105.2	256.2	3.7	5.1	111.0
Delaware.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maryland.....	22	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
District of Columbia.....	54	14	2.9	34.2	.1	.2	.7	87.6	55.9	142.0	1.8	FF	(D)
Virginia.....	23	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina.....	21	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina.....	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia.....	29	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Florida.....	59	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.5
East South Central Div....	55	6	1.7	12.8	.3	.5	1.6	25.2	13.8	39.0	.2	1.5	16.2
Kentucky.....	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee.....	30	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.4
Alabama.....	9	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Div....	115	12	.7	5.9	.2	.3	1.0	16.4	9.8	26.1	.5	.6	10.3
Arkansas.....	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana.....	23	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma.....	11	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas.....	72	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	7.8
West Region.....	330	36	3.6	37.5	.6	1.0	3.2	99.9	83.5	183.6	2.5	3.1	67.9
Mountain Division.....	56	6	.5	4.1	.1	.3	.9	11.1	7.0	18.1	.2	.7	14.5
Montana.....	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Idaho.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wyoming.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado.....	24	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Mexico.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	11	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah.....	6	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nevada.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....	274	30	3.1	33.3	.4	.7	2.3	88.8	76.5	165.5	2.3	2.4	53.4
Washington.....	21	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon.....	7	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	238	27	3.0	31.7	.4	.6	2.1	84.3	73.5	158.1	1.9	2.1	49.4
Hawaii.....	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2721-13-- PUBLISHING AND PRINTING													
United States.....	575	111	13.6	114.4	5.6	10.6	42.6	257.5	69.0	323.3	10.3	17.4	274.1
Northeast Region.....	183	33	4.1	37.3	1.6	2.9	14.1	87.0	18.0	105.7	1.7	5.6	90.9
New England Division.....	41	4	.4	2.8	.2	.4	1.4	6.0	2.1	8.0	.1	.3	3.3
Maine.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts.....	19	2	.2	1.3	.1	.1	.5	2.8	.9	3.7	.1	BB	(D)
Rhode Island.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut.....	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division..	142	29	3.7	34.4	1.4	2.5	12.8	81.0	16.0	97.7	1.6	5.4	87.5
New York.....	95	17	1.9	18.9	.7	1.2	5.9	40.3	6.8	47.4	1.2	3.0	52.5
New Jersey.....	22	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pennsylvania.....	25	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2721-- PERIODICALS--Con.													
2721-13-- PUBLISHING AND PRINTING--Con.													
North Central Region...	155	42	6.1	51.8	2.5	4.9	18.1	112.7	37.4	148.0	6.4	9.5	153.4
East North Central Div...	106	29	3.0	26.4	1.0	1.9	7.1	63.0	18.7	79.9	1.1	4.9	74.3
Ohio.....	22	6	1.3	12.8	.3	.5	1.9	34.6	8.0	41.0	.2	2.9	48.4
Indiana.....	8	2	.2	1.0	.1	.2	.6	1.8	1.2	3.1	.1	BB	(D)
Illinois.....	39	11	.9	2.6	.4	.7	2.7	16.4	5.6	21.8	.5	1.1	15.7
Michigan.....	17	6	.3	1.9	.1	.2	.7	3.8	1.4	5.2	.1	(NA)	(NA)
Wisconsin.....	20	4	.4	3.1	.1	.3	1.3	6.3	2.5	8.7	.1	(NA)	(NA)
West North Central Div...	49	13	3.2	25.4	1.5	3.0	11.0	49.8	18.7	68.1	5.3	4.6	79.1
Minnesota.....	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Iowa.....	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Missouri.....	22	7	2.3	17.6	1.1	2.3	9.1	30.6	14.5	44.9	(D)	EE	(D)
North Dakota.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Dakota.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas.....	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Region.....	137	19	2.0	14.6	1.0	1.8	6.2	33.2	8.3	39.8	1.5	1.3	16.6
South Atlantic Division..	78	8	.6	4.9	.2	.5	2.0	10.0	2.5	12.4	.2	.3	3.8
Delaware.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maryland.....	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
District of Columbia.....	19	2	.2	1.9	.1	.1	.5	3.3	.6	3.9	-	(NA)	(NA)
Virginia.....	7	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Virginia.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina.....	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina.....	6	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia.....	6	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida.....	16	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Div...	18	8	.9	4.6	.4	.7	2.1	11.8	3.7	14.1	1.2	.5	5.2
Kentucky.....	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee.....	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.7
Alabama.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Div...	41	3	.6	5.1	.3	.5	2.0	11.4	2.1	13.4	.2	.6	7.6
Arkansas.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma.....	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas.....	27	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	1.8
West Region.....	100	17	1.3	10.8	.6	1.1	4.3	24.6	5.2	29.8	.7	1.0	22.0
Mountain Division.....	20	3	.3	2.4	.2	.4	1.1	8.4	1.0	9.5	.3	.3	13.2
Montana.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado.....	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	8	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....	80	14	1.0	8.4	.4	.7	3.2	16.1	4.2	20.3	.4	.7	8.8
Washington.....	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.0
Oregon.....	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	64	11	.8	6.9	.3	.6	2.6	13.5	3.7	17.2	.3	.4	5.8
Alaska.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Hawaii.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2731-- BOOK PUBLISHING													
United States.....	1,205	307	57.1	557.6	16.2	31.4	128.6	1,935.8	959.9	2,856.8	48.4	52.0	1,456.6
Northeast Region.....	570	168	31.8	322.1	6.7	13.6	56.6	1,186.9	621.9	1,782.7	33.1	28.5	952.6
New England Division....	96	21	3.9	36.7	1.0	2.0	9.8	110.7	76.1	191.4	5.3	3.1	118.0
Massachusetts.....	51	14	3.3	31.5	.8	1.6	8.4	97.1	70.7	173.1	4.7	2.8	114.7
Connecticut.....E3	27	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division.	474	147	27.9	285.4	5.7	11.6	46.8	1,076.2	545.7	1,591.3	27.8	24.9	724.0
New York.....	372	111	22.7	237.0	3.9	8.2	32.6	951.5	472.1	1,395.7	26.5	21.4	638.6
New Jersey.....	56	20	2.3	20.6	.5	.8	3.2	65.5	37.8	103.3	.5	1.8	49.2
Pennsylvania.....	46	16	2.9	27.8	1.3	2.5	11.0	59.2	35.7	92.3	.8	1.8	36.2
North Central Region...	258	78	17.5	174.1	5.5	10.8	47.2	578.6	266.6	837.4	11.2	17.8	429.0
East North Central Div...	200	60	12.7	123.8	2.5	5.3	20.7	471.2	214.8	678.9	8.8	14.7	372.0
Ohio.....	31	9	2.9	25.0	.9	1.7	7.3	84.6	39.2	117.4	1.4	1.8	42.9
Indiana.....	19	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	16.4
Illinois.....	102	35	7.9	82.8	1.1	2.5	8.9	346.3	150.2	496.4	6.7	8.0	257.0
Michigan.....	26	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Wisconsin.....E2	22	6	.4	3.5	.2	.3	1.0	8.1	6.5	15.2	.2	FF	(D)
West North Central Div...	58	18	4.8	50.2	3.0	5.5	26.5	107.3	51.7	158.5	2.4	3.2	42.3
Minnesota.....	19	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	25.2
Iowa.....	11	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.9
Missouri.....E1	15	5	.7	5.5	.1	.2	.7	19.4	9.5	28.7	.2	CC	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2731-- BOOK PUBLISHING-- Continued													
South Region.....E1	181	27	3.1	24.0	1.4	2.4	8.3	67.6	31.6	95.5	2.0	3.3	41.6
South Atlantic Div.....E3	111	14	1.5	11.1	.7	1.3	4.9	26.2	11.6	36.9	1.2	1.3	17.6
Maryland.....E5	17	2	.2	1.3	(2)	.1	.2	5.1	2.3	6.9	.2	.3	3.0
District of Columbia.....E2	24	4	.5	4.1	.3	.6	2.4	8.6	3.6	11.9	(D)	.5	5.9
Virginia.....	13	4	.4	2.6	.2	.4	1.2	4.7	1.4	6.1	.1	.2	2.4
East South Central Div...	31	6	1.1	7.9	.5	.8	2.1	27.3	13.0	39.1	.5	1.7	18.2
Kentucky.....	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Tennessee.....	17	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	8.3
Alabama.....E1	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Div...E1	39	7	.6	5.0	.2	.3	1.3	14.0	6.9	19.5	.3	.3	5.8
Texas.....E2	34	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West Region.....E1	196	34	4.7	37.5	2.6	4.8	16.5	102.8	40.0	141.2	2.2	2.3	33.4
Mountain Division.....E3	29	4	.5	3.8	.4	.6	2.4	10.8	2.5	12.4	.7	.5	2.6
Colorado.....	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....E1	167	30	4.3	33.7	2.2	4.1	14.1	92.0	37.5	128.8	1.5	1.8	30.8
California.....E1	146	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	30.1
2731-11-- PUBLISHING ONLY													
United States.....	843	237	41.7	412.6	8.3	16.5	65.1	1,581.4	804.4	2,359.2	33.9	39.6	1,259.9
Northeast Region.....	412	134	25.7	259.7	4.4	8.8	37.7	1,010.1	533.6	1,527.3	23.4	25.6	875.9
New England Division....	60	14	2.6	25.0	.7	1.3	7.7	73.3	63.4	143.6	1.1	3.0	117.2
Maine.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts.....	33	9	2.2	20.9	.6	1.0	6.8	62.0	58.6	128.4	.6	2.8	114.5
Rhode Island.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut.....	19	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division..	352	120	23.0	234.7	3.7	7.6	29.9	936.8	471.1	1,383.7	22.3	22.6	758.7
New York.....	277	93	19.8	205.0	2.8	6.1	23.7	852.1	416.4	1,245.3	21.8	19.8	636.8
New Jersey.....	41	17	1.9	17.0	.4	.5	1.9	54.7	32.7	88.4	.3	EE	(D)
Pennsylvania.....	34	10	1.3	12.8	.5	.9	4.3	30.0	22.0	50.0	.2	EE	(D)
North Central Region...	184	65	11.3	112.7	1.8	3.9	13.8	448.8	216.8	658.9	9.0	10.5	328.7
East North Central Div...	146	52	10.3	103.7	1.6	3.5	12.3	415.4	198.8	609.2	7.6	FF	(D)
Ohio.....	24	6	1.2	12.0	.3	.5	2.3	44.2	26.5	66.2	.6	CC	(D)
Indiana.....	14	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois.....	74	31	7.3	76.7	.8	2.0	6.2	333.6	147.6	481.2	6.4	7.4	262.4
Michigan.....	15	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin.....	19	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Div...	38	13	1.0	9.0	.2	.4	1.5	33.4	17.5	49.7	1.3	CC	(D)
Minnesota.....	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Iowa.....	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri.....	9	3	.5	4.8	.1	.1	.4	18.0	9.0	26.8	.2	.5	10.6
South Dakota.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska.....	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas.....	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Region.....	120	16	1.4	12.3	.4	.5	2.3	44.6	21.2	63.1	.8	1.7	27.9
South Atlantic Division..	73	8	.7	5.2	.2	.4	1.3	14.4	7.3	21.2	.4	.6	10.8
Delaware.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maryland.....	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
District of Columbia.....	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia.....	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina.....	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia.....	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Florida.....	21	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Div...	24	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	11.9
Kentucky.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee.....	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Alabama.....	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Div...	23	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	5.2
Texas.....	23	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2731- BOOK PUBLISHING--Con.													
2731-11-- PUBLISHING ONLY--Continued													
West Region.....	127	22	3.5	27.9	1.8	3.4	11.3	77.9	32.4	109.9	.8	1.9	27.4
Mountain Division.....	16	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Montana.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Idaho.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Mexico.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Nevada.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....	111	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Washington.....	5	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	101	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Hawaii.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2731-13-- PUBLISHING AND PRINTING													
United States.....	362	70	15.3	145.1	7.9	14.9	63.5	354.4	155.5	497.6	14.5	12.3	196.7
Northeast Region.....	158	34	6.1	62.4	2.4	4.8	18.9	116.8	87.4	255.4	9.7	3.0	76.7
New England Division.....	36	7	1.2	11.8	.3	.8	2.1	37.4	12.8	47.8	(D)	2.9	75.9
Maine.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire.....	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts.....	18	5	1.1	10.6	.2	.6	1.6	38.0	12.1	44.7	(D)	(NA)	(NA)
Connecticut.....	8	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division..	122	27	4.9	50.6	2.0	4.0	16.8	139.4	74.6	207.6	5.5	2.9	75.9
New York.....	95	18	2.9	32.0	1.1	2.1	8.9	99.4	55.7	150.5	4.8	1.9	56.2
New Jersey.....	15	3	.4	3.6	.2	.3	1.3	10.7	5.2	14.9	.2	AA	(D)
Pennsylvania.....	12	6	1.6	15.0	.8	1.6	6.6	29.3	13.8	42.3	.6	CC	(D)
North Central Region....	74	13	6.3	61.4	3.7	6.9	33.4	129.7	50.2	178.5	2.2	7.4	100.3
East North Central Div....	54	8	2.5	20.1	1.0	1.8	8.4	55.8	16.0	69.7	1.1	FF	(D)
Ohio.....	7	3	1.8	13.0	.6	1.1	5.0	40.5	12.6	51.2	.8	EE	(D)
Indiana.....	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Illinois.....	28	4	.6	6.1	.3	.6	2.9	12.7	2.6	15.2	.3	BB	(D)
Michigan.....	11	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	9.3
Wisconsin.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
West North Central Div....	20	5	3.8	41.2	2.7	5.1	25.0	73.9	34.2	108.8	1.1	EE	(D)
Minnesota.....	6	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Iowa.....	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri.....	6	2	.2	.7	-	.1	.3	1.5	.4	1.9	.1	.2	1.4
North Dakota.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Region.....	61	11	1.7	11.7	1.0	1.8	6.0	23.0	10.4	32.4	1.1	1.6	13.7
South Atlantic Division...	38	6	.8	5.9	.5	.9	3.6	11.7	4.4	15.7	.8	.7	6.8
Maryland.....	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
District of Columbia.....	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Virginia.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida.....	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Div....	7	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	6.3
Kentucky.....	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Div....	16	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma.....	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas.....	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2731-BOOK PUBLISHING--Con.													
2731-13-- PUBLISHING AND PRINTING--Con.													
West Region.....	69	12	1.3	9.5	.8	1.4	5.2	24.9	7.5	31.3	1.4	.4	6.0
Mountain Division.....	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado.....	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	5	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nevada.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....	56	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Washington.....	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon.....	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	45	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Hawaii.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2732-- BOOK PRINTING													
United States.....	700	287	40.9	361.2	33.0	64.5	269.0	604.5	332.4	937.6	33.9	44.7	510.9
Northeast Region.....	319	118	15.0	134.4	12.4	24.3	103.0	223.5	105.7	329.4	(D)	19.2	211.0
New England Division.....	56	23	5.5	50.8	4.7	9.3	40.5	80.0	31.9	111.6	(D)	7.4	75.3
Vermont.....	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Massachusetts.....	33	13	3.9	36.9	3.3	6.7	29.7	59.0	22.9	81.5	(D)	5.5	54.9
Rhode Island.....	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Connecticut.....	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division.....	263	95	9.5	83.5	7.8	15.0	62.5	143.5	73.8	217.8	(D)	11.8	135.7
New York.....El	171	61	5.4	50.5	4.4	8.5	37.1	94.8	46.7	141.7	(D)	7.3	92.7
New Jersey.....	41	12	.9	8.4	.7	1.4	6.2	12.4	6.4	18.7	(D)	1.1	10.5
Pennsylvania.....	51	22	3.2	24.6	2.6	5.1	19.3	36.3	20.7	57.4	(D)	3.4	32.6
North Central Region...	150	63	12.0	115.5	9.4	18.3	84.4	195.6	116.9	312.7	(D)	13.1	162.8
East North Central Div...	107	45	10.0	99.1	7.8	15.4	73.3	171.6	105.3	277.9	(D)	11.0	141.0
Ohio.....	21	8	1.6	16.1	1.3	2.8	11.6	26.9	17.6	44.6	(D)	2.2	30.6
Indiana.....	17	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	58.6
Illinois.....	39	14	1.1	11.3	.8	1.6	8.2	18.7	8.8	27.6	(D)	1.2	19.9
Michigan.....	22	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Wisconsin.....	8	6	1.5	15.8	1.3	2.7	13.4	34.5	27.4	61.1	(D)	EE	(D)
West North Central Div...	43	18	2.0	16.4	1.5	2.9	11.2	24.0	11.6	34.7	(D)	2.1	21.8
Iowa.....	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.3
Missouri.....	16	10	1.1	10.2	.8	1.7	6.8	12.1	6.1	17.6	(D)	1.4	15.1
Kansas.....	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Region.....	149	78	11.8	95.7	9.5	19.2	70.5	152.2	96.2	249.4	6.6	10.2	109.0
South Atlantic Division..	86	51	5.5	48.5	4.3	8.3	34.8	81.2	46.3	127.2	3.1	4.8	52.6
Maryland.....	24	17	2.2	21.0	1.7	3.2	15.8	36.5	24.7	61.1	(D)	2.0	24.7
District of Columbia.....El	13	8	.5	5.3	.4	.8	4.2	8.2	4.6	12.8	(D)	.8	9.4
Virginia.....	8	4	1.0	7.4	.8	1.6	5.5	12.5	5.8	18.3	(D)	.7	7.4
North Carolina.....	8	5	.7	5.3	.5	1.1	3.1	8.4	3.6	11.9	(D)	.5	3.9
Georgia.....	9	4	.2	2.0	.2	.3	1.4	3.1	1.7	4.8	(D)	(NA)	(NA)
Florida.....	19	10	.8	6.2	.6	1.1	4.1	10.4	4.9	15.2	(D)	BB	(D)
East South Central Div...	25	13	4.3	33.6	3.6	7.6	26.2	40.6	38.5	80.5	2.8	3.4	31.8
Kentucky.....	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee.....	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	28.1
Alabama.....	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Div..El	38	14	2.0	13.5	1.6	3.3	9.5	30.4	11.3	41.6	.7	2.0	24.6
Texas.....	23	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West Region.....	82	28	2.1	15.6	1.7	2.8	11.0	33.2	13.6	46.2	1.6	2.2	28.1
Mountain Division.....	28	11	.7	6.1	.6	1.1	4.3	11.1	5.9	16.8	.5	.6	6.2
Colorado.....	11	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division.....	54	17	1.4	9.5	1.1	1.6	6.7	22.1	7.7	29.4	1.2	1.6	21.9
Washington.....	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....El	49	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	19.1

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2741-- MISCELLANEOUS PUBLISHING													
United States.....E1	2,041	272	38.8	331.2	19.1	31.7	135.0	775.7	296.1	1,070.2	22.8	31.1	417.5
Northeast Region.....E1	719	107	15.7	137.7	6.3	10.3	47.9	307.9	84.6	390.5	8.8	12.1	152.4
New England Division....E3	110	18	1.7	12.5	.8	1.2	4.3	32.8	8.9	41.3	.8	1.4	16.0
Massachusetts.....E4	63	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.2
Connecticut.....E1	30	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Div.....E1	609	89	14.0	125.2	5.6	9.1	43.6	275.0	75.6	349.2	8.0	10.7	136.4
New York.....E1	470	62	8.7	76.3	3.4	5.6	24.9	172.8	46.4	218.0	4.1	7.3	114.9
New Jersey.....E1	74	17	3.8	36.4	.9	1.6	8.7	66.4	19.6	85.9	1.5	2.9	17.2
Pennsylvania.....E1	65	10	1.5	12.5	1.2	1.9	10.1	35.8	9.6	45.4	2.4	.5	4.3
North Central Region...	500	85	13.8	121.9	7.2	12.6	52.8	292.5	162.2	455.6	7.2	11.5	179.6
East North Central Div...	357	61	10.9	102.8	5.5	9.8	43.1	252.6	140.7	394.3	5.7	FF	(D)
Ohio.....E1	65	16	1.3	9.4	.9	1.5	4.8	16.5	9.2	25.7	.4	CC	(D)
Indiana.....E1	32	8	.9	6.3	.3	.6	2.1	25.7	12.1	37.2	.5	CC	(D)
Illinois.....E1	136	24	5.4	59.3	2.2	3.9	18.6	118.2	90.1	209.9	1.9	5.3	98.8
Michigan.....E1	81	10	3.0	25.8	1.9	3.6	16.3	86.9	28.1	115.1	2.3	2.7	47.3
Wisconsin.....E5	43	3	.3	2.1	.2	.2	1.4	5.2	1.1	6.3	.5	AA	(D)
West North Central Div..E1	143	24	2.9	19.0	1.6	2.8	9.7	39.9	21.4	61.4	1.4	EE	(D)
Minnesota.....E1	35	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	AA	(D)
Iowa.....E2	40	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	AA	(D)
Missouri.....E1	33	3	.6	4.1	.1	.2	.7	10.0	3.3	13.4	.3	BB	(D)
Kansas.....E1	22	6	1.0	5.8	.8	1.6	4.4	12.0	5.2	16.8	.7	CC	(D)
South Region.....E2	413	44	4.6	34.3	2.4	3.7	13.5	83.1	21.6	105.0	3.5	FF	(D)
South Atlantic Division..E2	197	25	2.8	21.5	1.3	2.0	7.5	52.2	14.0	66.4	2.0	1.7	21.2
Maryland.....E5	26	1	.2	1.2	.1	.1	.5	3.4	1.1	4.5	.1	(NA)	(NA)
District of Columbia....E1	30	5	.6	5.9	.2	.2	1.2	18.5	6.6	25.1	.2	.5	7.0
Virginia.....E1	19	4	.9	6.1	.2	.3	1.3	10.9	.7	11.8	.1	CC	(D)
Georgia.....E4	26	4	.2	1.5	.1	.2	.9	3.7	1.1	4.8	.2	(NA)	(NA)
Florida.....E2	77	10	.8	6.2	.6	1.0	3.2	14.3	3.9	18.4	1.4	.3	2.9
East South Central Div..E3	104	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee.....E3	80	6	.6	4.2	.4	.6	1.8	9.5	2.6	11.9	(D)	.3	2.9
West South Central Div..E2	112	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas.....E2	82	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West Region.....E2	409	36	4.7	37.3	3.2	5.1	20.8	92.2	27.7	119.0	3.2	FF	(D)
Mountain Division.....E1	47	3	.8	7.3	.5	.8	3.8	18.3	4.0	22.4	.5	BB	(D)
Colorado.....E1	18	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division.....E2	362	33	3.9	30.1	2.7	4.3	16.9	73.9	23.7	96.5	2.7	FF	(D)
California.....E2	323	31	3.8	28.4	2.5	4.0	15.7	70.1	22.8	91.9	2.6	FF	(D)
2741-11-- PUBLISHING ONLY													
United States.....	1,904	188	27.1	224.1	13.5	21.7	93.2	553.1	224.7	775.9	14.8	(NA)	(NA)
Northeast Region.....	677	82	11.4	100.7	4.9	7.9	35.9	227.9	69.7	295.3	5.8	(NA)	(NA)
New England Division....	105	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maine.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont.....	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts.....	60	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rhode Island.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut.....	29	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division..	572	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New York.....	450	48	5.5	50.1	2.7	4.6	20.6	110.7	34.7	144.1	2.9	(NA)	(NA)
New Jersey.....	63	10	3.1	29.9	.4	.8	4.5	53.8	17.3	70.9	1.2	(NA)	(NA)
Pennsylvania.....	59	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Central Region...	446	49	8.9	71.0	4.8	8.3	33.9	193.0	119.6	313.4	5.0	(NA)	(NA)
East North Central Div...	319	35	6.9	58.2	3.7	6.3	27.7	162.6	104.1	267.8	3.7	(NA)	(NA)
Ohio.....	54	7	.7	5.3	.4	.7	2.6	8.7	8.1	16.7	.3	(NA)	(NA)
Indiana.....	26	4	.6	4.0	.2	.3	1.1	19.8	10.3	29.5	.4	(NA)	(NA)
Illinois.....	124	15	2.6	23.5	1.1	1.9	7.3	47.2	62.1	110.9	.7	(NA)	(NA)
Michigan.....	74	7	2.7	23.6	1.8	3.3	15.5	82.3	22.6	105.1	2.1	(NA)	(NA)
Wisconsin.....	41	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ²	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2741- MISCELLANEOUS PUBLISHING--Con.													
2741-11-- PUBLISHING ONLY--Continued													
North Central Region--Continued													
West North Central Div....	127	14	2.1	12.8	1.2	1.9	6.3	30.4	15.5	45.6	1.3	(NA)	(NA)
Minnesota.....	31	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Iowa.....	35	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri.....	31	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Dakota.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Dakota.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska.....	7	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas.....	20	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Region.....	398	35	4.0	30.4	2.0	2.9	11.5	74.8	18.5	93.7	2.4	(NA)	(NA)
South Atlantic Division...	190	21	2.6	20.1	1.2	1.8	7.0	49.8	12.7	62.8	1.7	(NA)	(NA)
Maryland.....	26	1	.2	1.2	.1	.1	.5	3.4	1.1	4.5	.1	(NA)	(NA)
District of Columbia.....	29	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia.....	18	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Virginia.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina.....	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina.....	6	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia.....	25	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida.....	73	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Div....	101	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kentucky.....	6	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee.....	79	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama.....	11	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi.....	5	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Div....	107	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arkansas.....	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana.....	9	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma.....	12	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas.....	79	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Region.....	383	22	2.7	22.0	1.8	2.5	11.8	57.4	16.9	73.4	1.7	(NA)	(NA)
Mountain Division.....	42	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Idaho.....	3	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado.....	15	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Mexico.....	7	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	11	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah.....	5	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nevada.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....	341	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Washington.....	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon.....	14	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	305	20	2.4	19.1	1.5	2.2	10.0	50.5	15.2	64.9	1.4	(NA)	(NA)
Alaska.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Hawaii.....	4	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2741-13-- PUBLISHING AND PRINTING													
Unites States.....	137	84	11.7	107.1	5.6	10.1	41.8	222.6	71.4	294.3	7.9	(NA)	(NA)
Northeast Region.....	42	25	4.2	37.0	1.5	2.4	12.0	80.0	14.8	95.2	3.0	(NA)	(NA)
New England Division.....	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division..	37	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New York.....	20	14	3.1	26.3	.7	1.0	4.3	62.1	11.7	73.8	1.1	(NA)	(NA)
New Jersey.....	11	7	.7	6.5	.5	.8	4.2	12.6	2.3	14.9	.3	(NA)	(NA)
Pennsylvania.....	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Central Region....	54	36	4.9	50.8	2.3	4.4	18.9	99.5	42.6	142.2	2.3	(NA)	(NA)
East North Central Div....	38	26	4.1	44.6	1.8	3.5	15.5	90.0	36.6	126.5	2.1	(NA)	(NA)
Ohio.....	11	9	.6	4.1	.5	.8	2.2	7.8	1.1	9.0	.2	(NA)	(NA)
Indiana.....	6	4	.3	2.3	.1	.3	1.0	5.9	1.8	7.7	.1	(NA)	(NA)
Illinois.....	12	9	2.9	35.8	1.1	2.1	11.2	71.0	28.0	99.1	1.3	(NA)	(NA)
Michigan.....	7	3	.2	2.2	.1	.3	.8	4.6	5.6	10.0	.2	(NA)	(NA)
Wisconsin.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued¹

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2741- MISCELLANEOUS PUBLISHING--Con.													
2741-13-- PUBLISHING AND PRINTING--Con.													
North Central Region--Continued													
West North Central Div...	16	10	.8	6.2	.5	.9	3.4	9.5	5.9	15.7	.3	(NA)	(NA)
Minnesota.....	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Iowa.....	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Dakota.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas.....	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Region.....	15	9	.6	3.9	.4	.8	2.0	8.3	3.2	11.3	1.0	(NA)	(NA)
South Atlantic Division..	7	4	.2	1.4	.1	.2	.6	2.4	1.3	3.7	.4	(NA)	(NA)
District of Columbia.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida.....	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Div...	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kentucky.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Div...	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas.....	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Region.....	26	14	2.0	15.3	1.4	2.6	8.9	34.9	10.9	45.5	1.5	(NA)	(NA)
Mountain Division.....	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wyoming.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado.....	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	1	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....	21	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Washington.....	2	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	18	11	1.4	9.3	1.0	1.8	5.7	19.7	7.6	27.0	1.2	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Newspapers (SIC 2711)			Periodicals (SIC 2721)		
	Total	Daily (SIC 2711- 11)	Weekly and others (SIC 2711- 13)	Total	Publishing only (SIC 2721- 11)	Publishing and printing (SIC 2721- 13)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	97	(NA)	(NA)	89	(NA)	(NA)
COVERAGE RATIO ² DO	100	(NA)	(NA)	95	(NA)	(NA)
ESTABLISHMENTS, TOTAL NUMBER	8 116	1 457	6 659	2 535	1 960	575
WITH 1 TO 19 EMPLOYEES DO	5 996	113	5 883	2 082	1 618	464
WITH 20 TO 99 EMPLOYEES DO	1 527	808	719	354	270	84
WITH 100 EMPLOYEES OR MORE DO	593	536	57	99	72	27
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	348.9	283.9	65.1	66.6	53.1	13.6
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	3 170.8	2 766.3	404.5	709.7	595.3	114.4
PRODUCTION WORKERS:						
AVERAGE FOR YEAR 1,000	169.8	133.3	36.6	11.2	5.5	5.6
MARCH DO	168.8	132.5	36.3	11.4	5.7	5.7
MAY DO	170.3	133.7	36.6	11.1	5.5	5.6
AUGUST DO	168.8	132.3	36.5	11.0	5.5	5.5
NOVEMBER DO	171.6	134.5	37.1	11.1	5.6	5.5
MAN-HOURS MILLIONS	298.8	238.9	59.9	21.1	10.5	10.6
JANUARY-MARCH DO	72.8	58.4	14.4	5.6	2.8	2.8
APRIL-JUNE DO	73.7	59.8	14.9	5.1	2.5	2.7
JULY-SEPTEMBER DO	74.0	59.2	14.8	5.2	2.7	2.6
OCTOBER-DECEMBER DO	77.2	61.6	15.7	5.1	2.5	2.7
WAGES MILLION DOLLARS	1 537.8	1 349.5	188.3	84.6	42.0	42.6
COST OF MATERIALS, ETC., TOTAL DO	2 045.2	1 771.3	274.0	1 410.0	1 341.2	69.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	1 819.4	1 604.6	214.7	538.6	487.8	50.8
COST OF RESALES DO	19.9	13.6	6.3	60.4	53.2	7.3
FUELS CONSUMED DO	9.9	8.3	1.5	1.1	.7	.4
PURCHASED ELECTRIC ENERGY DO	37.1	31.7	5.3	5.6	4.4	1.3
CONTRACT WORK DO	159.0	113.0	46.1	804.2	795.0	9.3
VALUE OF SHIPMENTS, INCLUDING RESALES DO	8 270.1	7 164.9	1 105.2	3 521.3	3 198.0	323.3
VALUE OF RESALES DO	22.4	14.8	7.6	71.8	60.2	11.6
VALUE ADDED BY MANUFACTURE DO	6 225.6	5 393.9	831.6	2 114.5	1 857.0	257.5
MANUFACTURERS' INVENTORIES:						
BEGINNING OF YEAR, TOTAL DO	168.4	145.9	22.5	194.8	159.8	34.9
FINISHED PRODUCTS DO	4.4	2.0	2.4	60.7	41.9	18.8
WORK IN PROCESS DO	3.5	2.5	1.1	37.7	28.7	9.1
MATERIALS, SUPPLIES, FUEL, ETC. DO	160.6	141.4	19.2	96.3	89.3	7.1
END OF YEAR, TOTAL DO	152.8	128.4	24.5	197.9	160.2	37.6
FINISHED PRODUCTS DO	4.1	1.8	2.4	62.0	39.5	22.5
WORK IN PROCESS DO	4.4	2.9	1.4	39.8	31.2	8.5
MATERIALS, SUPPLIES, FUEL, ETC. DO	144.2	123.6	20.6	96.2	89.5	6.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	386.3	335.8	50.6	57.7	47.3	10.4
NEW PLANT AND EQUIPMENT, TOTAL DO	359.6	310.8	48.8	56.8	46.6	10.3
NEW STRUCTURES AND ADDITIONS TO PLANT DO	106.0	94.0	11.9	16.5	11.9	4.6
NEW MACHINERY AND EQUIPMENT DO	253.6	216.9	36.7	40.3	34.6	5.6
USED PLANT AND EQUIPMENT DO	26.7	24.9	1.8	.9	.8	.1

See footnotes on next page.

TABLE 3. Detailed Statistics: 1972—Continued

(See appendix, Explanation of Terms)

Item	Book publishing (SIC 2731)			Book printing (SIC 2732)	Miscellaneous publishing (SIC 2741)		
	Total	Publishing only (SIC 2731-11)	Publishing and printing (SIC 2731-13)		Total	Publishing only (SIC 2741-11)	Publishing and printing (SIC 2741-13)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	93	(NA)	(NA)	83	95	(NA)	(NA)
COVERAGE RATIO ²	86	(NA)	(NA)	73	93	(NA)	(NA)
ESTABLISHMENTS, TOTAL NUMBER	1 205	843	362	700	2 041	1 904	137
WITH 1 TO 19 EMPLOYEES	898	606	292	413	1 769	1 716	53
WITH 20 TO 99 EMPLOYEES	192	148	44	213	210	149	61
WITH 100 EMPLOYEES OR MORE	115	89	26	74	62	39	23
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	57.1	41.7	15.3	40.9	38.8	27.1	11.7
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	557.6	412.6	145.1	361.2	331.2	224.1	107.1
PRODUCTION WORKERS:							
AVERAGE FOR YEAR 1,000	16.2	8.3	7.9	33.0	19.1	13.5	5.6
MARCH	16.0	8.0	7.9	34.0	20.0	14.1	5.9
MAY	16.0	8.2	7.8	33.8	19.0	13.2	5.7
AUGUST	16.6	8.6	8.1	32.4	18.6	13.4	5.2
NOVEMBER	16.3	8.4	7.9	31.9	18.7	13.1	5.6
MAN-HOURS MILLIONS	31.4	16.5	14.9	64.5	31.7	21.7	10.1
JANUARY-MARCH	7.8	4.1	3.7	16.4	8.5	5.9	2.6
APRIL-JUNE	8.0	4.2	3.8	16.8	8.0	5.4	2.6
JULY-SEPTEMBER	7.9	4.2	3.7	15.8	7.6	5.3	2.3
OCTOBER-DECEMBER	7.8	4.1	3.7	15.5	7.7	5.2	2.5
WAGES MILLION DOLLARS	128.6	65.1	63.5	269.0	135.0	93.2	41.8
COST OF MATERIALS, ETC., TOTAL	959.9	804.4	155.5	332.4	296.1	224.7	71.4
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED	260.3	174.2	86.0	277.7	135.3	83.4	51.9
COST OF REALES	37.8	32.1	5.7	7.8	14.1	10.8	3.4
FUELS CONSUMED	1.5	.7	.8	2.4	.7	.4	.3
PURCHASED ELECTRIC ENERGY	4.2	2.4	1.8	6.7	2.7	1.8	.8
CONTRACT WORK	656.2	594.9	61.2	37.8	143.3	128.2	15.0
VALUE OF RECEIPTS, INCLUDING REALES	2 856.8	2 359.2	497.6	937.6	1 070.2	775.9	294.3
VALUE OF REALES	65.8	53.4	12.4	11.3	19.9	14.2	5.6
VALUE ADDED BY MANUFACTURE	1 935.8	1 581.4	354.4	604.5	775.7	553.1	222.6
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL	588.0	490.7	97.2	95.1	62.7	50.6	12.1
FINISHED PRODUCTS	410.5	352.6	57.8	16.6	22.6	17.5	5.2
WORK IN PROCESS	126.0	105.3	20.7	42.0	24.7	21.4	3.3
MATERIALS, SUPPLIES, FUEL, ETC.	51.5	32.7	18.7	36.6	15.3	11.7	3.6
END OF YEAR, TOTAL	629.4	519.0	110.4	99.4	68.1	55.3	12.7
FINISHED PRODUCTS	444.1	376.8	67.3	15.9	22.5	17.3	5.2
WORK IN PROCESS	131.2	107.8	23.4	42.0	26.5	23.5	3.1
MATERIALS, SUPPLIES, FUEL, ETC.	54.0	34.4	19.6	41.6	19.1	14.6	4.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL	50.2	35.6	14.7	36.5	23.1	15.0	8.1
NEW PLANT AND EQUIPMENT, TOTAL	48.4	33.9	14.5	33.9	22.8	14.8	7.9
NEW STRUCTURES AND ADDITIONS TO PLANT	9.2	6.5	2.7	7.3	5.5	4.1	1.4
NEW MACHINERY AND EQUIPMENT	39.2	27.5	11.8	26.6	17.2	10.7	6.6
USED PLANT AND EQUIPMENT	1.8	1.6	.2	2.6	.3	.2	.1

(NA) Not available.

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establish- ments	All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of receipts	Capital expendi- tures, new	End-of- year inven- tories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
2711-- NEWSPAPER											
ESTABLISHMENTS, TOTAL.	8 116	348.9	3 170.8	169.8	298.8	1 537.8	6 225.6	2 045.2	8 270.1	359.6	152.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	3 575	6.7	38.7	4.9	7.0	18.4	105.1	35.2	140.3	5.8	3.4
5 TO 9 EMPLOYEES E8	1 446	9.6	56.7	5.8	10.1	28.2	126.4	41.5	167.9	6.9	4.1
10 TO 19 EMPLOYEES E2	975	13.3	80.8	7.7	13.2	40.0	164.4	48.7	213.1	10.4	4.8
20 TO 49 EMPLOYEES E1	1 056	32.9	200.1	17.5	30.2	93.0	399.7	107.3	506.6	27.6	10.1
50 TO 99 EMPLOYEES	472	32.8	229.5	15.5	27.6	101.8	468.1	111.4	579.5	43.7	9.1
100 TO 249 EMPLOYEES	334	51.2	415.7	23.5	43.0	191.2	823.8	197.7	1 021.4	61.0	16.1
250 TO 499 EMPLOYEES	135	46.3	406.0	19.9	36.6	189.4	843.6	241.5	1 084.4	46.7	20.7
500 TO 999 EMPLOYEES	65	45.5	439.9	20.2	36.9	208.6	873.7	287.8	1 161.7	39.4	21.3
1,000 TO 2,499 EMPLOYEES	47	69.6	773.4	32.6	59.5	382.7	1 508.7	584.7	2 093.3	61.6	43.0
2,500 EMPLOYEES OR MORE.	11	41.0	529.9	22.3	34.7	284.4	911.9	389.6	1 301.6	56.6	20.2
ESTABS. COVERED BY ADMIN. RECORD ¹ .	4 388	14.2	83.7	9.5	15.1	40.7	203.9	68.6	272.4	10.8	7.0
2711-11 DAILY											
ESTABLISHMENTS, TOTAL.	1 457	283.9	2 766.3	133.3	238.9	1 349.5	5 393.9	1 771.3	7 164.9	310.8	128.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	3	(2)	(Z)	(Z)	(Z)	(Z)	.2	(Z)	.2	.1	(Z)
5 TO 9 EMPLOYEES	18	.1	.9	.1	.1	.3	2.4	.3	2.7	(D)	(Z)
10 TO 19 EMPLOYEES	92	1.4	8.7	.9	1.4	4.6	17.1	3.7	20.7	1.0	.3
20 TO 49 EMPLOYEES	459	15.1	96.5	8.0	14.7	45.2	192.9	41.4	234.4	14.6	4.3
50 TO 99 EMPLOYEES	350	24.7	176.5	11.5	21.0	80.0	368.9	74.9	443.8	39.1	6.5
100 TO 249 EMPLOYEES	291	45.0	372.4	20.3	37.8	170.9	748.1	170.0	918.1	54.7	13.6
250 TO 499 EMPLOYEES	124	42.9	379.1	18.4	34.1	178.4	794.9	226.4	1 021.0	44.5	19.7
500 TO 999 EMPLOYEES	60	42.9	413.3	19.1	35.3	199.7	845.5	277.8	1 123.5	38.5	20.6
1,000 TO 2,499 EMPLOYEES	47	69.6	773.4	32.6	59.5	382.7	1 508.7	584.7	2 093.3	61.6	43.0
2 500 EMPLOYEES OR MORE.	11	41.0	529.9	22.3	34.7	284.4	911.9	389.6	1 301.6	56.6	20.2
2711-13 WEEKLY AND OTHERS											
ESTABLISHMENTS, TOTAL. E4	6 659	65.1	404.5	36.6	59.9	188.3	831.6	274.0	1 105.2	48.8	24.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	3 572	6.6	38.7	4.9	7.0	18.3	105.0	35.1	140.1	12.6	3.4
5 TO 9 EMPLOYEES E8	1 428	9.5	55.8	5.8	10.0	27.9	124.0	41.2	165.2	(D)	4.1
10 TO 19 EMPLOYEES E3	883	11.8	72.1	6.9	11.8	35.4	147.3	45.0	192.4	9.4	5.8
20 TO 49 EMPLOYEES E2	597	17.6	103.6	9.5	15.5	47.8	206.9	65.7	272.2	13.0	5.8
50 TO 99 EMPLOYEES E2	122	8.1	53.0	4.1	6.6	21.9	99.3	36.4	135.7	4.6	2.6
100 TO 249 EMPLOYEES E2	43	6.3	43.4	3.1	5.1	20.5	75.7	27.7	103.4	6.3	2.5
250 TO 499 EMPLOYEES E1	11	3.4	26.8	1.5	2.4	11.0	48.7	15.1	63.8	2.3	1.0
500 TO 999 EMPLOYEES	3	1.6	11.2	.8	1.3	5.6	24.8	7.7	32.4	.7	.5
ESTABS. COVERED BY ADMIN. RECORD ¹ .	4 388	14.2	83.7	9.5	15.1	40.7	203.9	68.6	272.4	10.8	7.0
2721-- PERIODICALS											
ESTABLISHMENTS, TOTAL.	2 535	66.6	709.7	11.2	21.1	84.6	2 114.5	1 410.0	3 521.3	56.8	197.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	1 404	2.3	20.9	.6	.8	3.4	74.5	45.7	120.2	1.8	7.2
5 TO 9 EMPLOYEES E5	394	2.6	24.8	.8	1.5	5.8	68.8	44.1	112.9	1.7	5.4
10 TO 19 EMPLOYEES E1	284	3.9	36.8	1.2	2.3	8.7	101.8	58.3	159.9	2.0	4.8
20 TO 49 EMPLOYEES	255	7.6	73.2	1.9	3.5	13.4	184.4	107.9	291.7	3.0	9.6
50 TO 99 EMPLOYEES	99	6.7	64.3	1.5	2.8	11.0	178.2	119.5	298.3	4.2	12.8
100 TO 249 EMPLOYEES	49	7.6	77.7	1.8	3.5	15.3	195.0	95.7	289.9	3.8	14.6
250 TO 999 EMPLOYEES	28	9.8	103.8	1.2	2.2	9.0	301.2	230.1	530.9	7.9	32.2
500 TO 999 EMPLOYEES	12	8.9	104.8	1.3	3.2	10.9	357.5	214.9	570.4	11.1	36.1
1,000 TO 2,499 EMPLOYEES	7	8.5	81.0	.6	.9	4.6	179.6	249.6	426.9	21.3	44.4
2,500 EMPLOYEES OR MORE.	3	8.6	122.4	.2	.3	2.5	473.5	244.1	720.3	(D)	30.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 319	3.0	27.3	.8	1.2	4.9	87.2	52.9	140.2	2.1	9.6
2721-11 PUBLISHING ONLY											
ESTABLISHMENTS, TOTAL.	1 960	53.1	595.3	5.5	10.5	42.0	1 857.0	1 341.2	3 198.0	46.6	160.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	1 126	1.7	16.3	.3	.4	1.6	64.3	42.3	106.6	1.6	6.2
5 TO 9 EMPLOYEES E4	264	1.7	18.0	.4	.7	3.2	54.1	39.9	93.9	1.2	3.9
10 TO 19 EMPLOYEES	228	3.1	31.1	.8	1.5	5.8	87.4	53.7	141.0	1.6	3.5
20 TO 49 EMPLOYEES	195	5.8	59.7	1.2	2.1	8.0	155.8	100.0	255.4	2.3	7.7
50 TO 99 EMPLOYEES	75	5.1	52.6	.9	1.5	6.7	156.9	113.7	271.1	3.7	10.2
100 TO 249 EMPLOYEES	35	5.5	54.6	1.0	1.9	7.8	137.1	83.6	221.0	2.3	9.5
250 TO 499 EMPLOYEES	19	6.8	80.1	.2	.3	1.3	246.2	211.9	459.9	3.4	23.0
500 TO 999 EMPLOYEES	9	14.4	160.6	.6	1.7	5.2	481.8	452.1	929.5	30.3	65.4
1,000 TO 2,499 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE.	3	8.6	122.4	.2	.3	2.5	473.5	244.1	720.3	(D)	30.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	976	1.9	18.1	.3	.3	1.3	68.0	47.6	115.7	1.7	7.5
2721-13 PUBLISHING AND PRINTING											
ESTABLISHMENTS, TOTAL. E1	575	13.6	114.4	5.6	10.6	42.6	257.5	69.0	323.3	10.3	37.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	278	.6	4.7	.3	.5	1.8	10.1	3.4	13.6	.2	1.0
5 TO 9 EMPLOYEES E8	130	.8	6.8	.4	.7	2.6	14.8	4.2	19.0	.5	1.4
10 TO 19 EMPLOYEES E3	56	.8	5.7	.4	.8	2.9	14.4	4.6	18.9	.4	1.2
20 TO 49 EMPLOYEES	60	1.8	13.5	.8	1.4	5.4	28.6	7.9	36.3	.7	1.9
50 TO 99 EMPLOYEES E1	24	1.6	11.7	.7	1.2	4.4	21.3	5.8	27.2	.5	2.5
100 TO 249 EMPLOYEES	14	2.1	23.1	.8	1.7	7.5	58.0	12.2	68.9	1.5	5.2
250 TO 499 EMPLOYEES	9	3.0	23.7	1.1	2.0	7.7	55.0	18.3	71.6	4.5	9.2
500 TO 999 EMPLOYEES	3	3.0	25.2	1.2	2.3	10.3	55.3	12.4	67.9	2.1	15.2
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	343	1.2	9.2	.5	1.0	3.6	19.2	5.3	24.5	.4	2.1

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of receipts (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
2731-- BOOK PUBLISHING											
ESTABLISHMENTS, TOTAL.	1 205	57.1	557.6	16.2	31.4	128.6	1 935.8	959.9	2 856.8	48.4	629.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	604	.9	8.1	.3	.4	1.6	36.2	19.4	54.9	1.0	12.8
5 TO 9 EMPLOYEES E5	160	1.0	9.5	.3	.6	1.9	37.2	20.7	57.8	1.1	12.6
10 TO 19 EMPLOYEES E2	134	1.9	17.0	.5	.9	3.5	58.9	32.0	88.2	1.3	19.7
20 TO 49 EMPLOYEES E1	125	4.0	37.3	1.2	2.1	9.1	112.7	68.8	178.9	3.1	40.6
50 TO 99 EMPLOYEES E1	67	4.7	42.2	1.4	2.5	10.8	124.1	71.9	196.9	4.7	41.1
100 TO 249 EMPLOYEES	59	8.3	79.0	1.8	3.5	12.1	288.8	162.4	441.4	5.3	96.7
250 TO 499 EMPLOYEES	29	10.0	96.9	2.8	5.5	23.9	385.4	167.4	541.1	6.2	130.7
500 TO 999 EMPLOYEES	17	11.1	115.8	1.7	3.6	15.7	434.1	221.8	645.8	11.2	129.2
1,000 TO 2,499 EMPLOYEES	9	15.3	151.9	6.1	12.4	50.0	458.4	195.6	651.8	14.7	145.9
2,500 EMPLOYEES OR MORE.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	526	1.1	9.7	.3	.5	1.9	40.7	20.0	60.7	1.0	14.3
2731-11 PUBLISHING ONLY											
ESTABLISHMENTS, TOTAL.	843	41.7	412.6	8.3	16.5	65.1	1 581.4	804.4	2 359.2	33.9	519.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	400	.6	5.3	.1	.1	.6	29.6	16.7	45.7	.7	10.7
5 TO 9 EMPLOYEES E4	107	.7	6.7	.1	.3	.9	30.6	17.7	48.3	.8	10.4
10 TO 19 EMPLOYEES E1	99	1.4	12.9	.3	.4	1.8	49.2	27.9	74.7	1.1	17.1
20 TO 49 EMPLOYEES E1	95	3.0	29.4	.8	1.2	5.7	95.6	63.2	156.3	2.6	36.6
50 TO 99 EMPLOYEES	53	3.7	33.9	.9	1.6	7.5	102.8	63.4	168.8	3.3	34.1
100 TO 249 EMPLOYEES	48	6.7	65.1	1.1	2.2	7.1	257.0	147.6	396.0	3.3	86.9
250 TO 499 EMPLOYEES	21	7.1	67.4	1.1	2.1	9.3	321.7	146.8	459.5	1.9	105.0
500 TO 999 EMPLOYEES	13	18.7	192.0	3.9	8.6	32.1	694.8	321.0	1 010.0	19.5	218.1
1,000 TO 2,499 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	329	.6	5.7	.1	.1	.5	31.1	15.9	47.0	.7	11.1
2731-13 PUBLISHING AND PRINTING											
ESTABLISHMENTS, TOTAL. E1	362	15.3	145.1	7.9	14.9	63.5	354.4	155.5	497.6	14.5	110.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	204	.3	2.9	.2	.3	1.0	6.6	2.7	9.3	.3	2.1
5 TO 9 EMPLOYEES E9	53	.3	2.8	.2	.3	1.0	6.6	3.0	9.5	.3	2.2
10 TO 19 EMPLOYEES E5	35	.5	4.2	.3	.4	1.7	9.6	4.1	13.5	.2	2.6
20 TO 49 EMPLOYEES E2	30	.9	7.9	.5	.9	3.4	17.1	5.5	22.6	.4	6.9
50 TO 99 EMPLOYEES E3	14	1.0	8.3	.5	.9	3.4	21.3	8.6	28.0	1.4	6.9
100 TO 249 EMPLOYEES E2	11	1.6	13.9	.7	1.3	4.9	31.8	14.8	45.5	1.3	9.8
250 TO 499 EMPLOYEES	8	2.9	29.5	1.7	3.4	14.6	63.7	20.6	81.6	4.2	25.8
500 TO 999 EMPLOYEES	4	7.8	75.7	4.0	7.4	33.5	197.7	96.2	287.6	6.4	56.9
1,000 TO 2,499 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	197	.5	4.0	.2	.4	1.4	9.6	4.0	13.6	.3	3.1
2732-- BOOK PRINTING											
ESTABLISHMENTS, TOTAL.	700	40.9	361.2	33.0	64.5	269.0	604.5	332.4	937.6	33.9	99.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E6	159	.3	2.2	.3	.4	1.6	6.3	3.6	9.8	.3	.7
5 TO 9 EMPLOYEES E4	106	.8	6.6	.6	1.2	5.0	14.3	7.0	21.2	.9	1.7
10 TO 19 EMPLOYEES E1	148	2.0	18.2	1.6	3.1	12.9	36.2	19.4	55.5	1.9	2.9
20 TO 49 EMPLOYEES E1	157	5.0	44.6	3.8	7.4	31.2	81.9	41.1	122.6	7.3	8.1
50 TO 99 EMPLOYEES	56	4.0	36.1	3.2	6.1	26.0	60.9	32.4	92.7	3.2	7.8
100 TO 249 EMPLOYEES	38	5.7	52.4	4.5	8.4	37.8	74.6	50.6	125.7	3.6	20.5
250 TO 499 EMPLOYEES	18	6.0	48.5	5.0	9.5	36.2	81.6	46.1	127.5	4.2	12.8
500 TO 999 EMPLOYEES	14	10.1	88.0	8.5	16.7	69.7	149.6	81.7	232.7	8.5	26.2
1,000 TO 2,499 EMPLOYEES	4	7.0	64.7	5.6	11.8	48.8	99.1	50.6	150.1	4.2	18.7
ESTABS. COVERED BY ADMIN. RECORD ¹ .	154	.4	3.3	.4	.7	2.5	7.2	3.7	10.9	.4	1.0
2741-- MISCELLANEOUS PUBLISHING											
ESTABLISHMENTS, TOTAL. E1	2 041	38.8	331.2	19.1	31.7	135.0	775.7	296.1	1 070.2	22.8	68.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	1 276	2.0	15.6	1.8	2.3	9.6	56.5	13.9	70.3	2.1	4.7
5 TO 9 EMPLOYEES E6	300	1.9	15.5	1.3	2.2	9.0	47.6	15.7	63.1	3.2	4.1
10 TO 19 EMPLOYEES E3	193	2.6	21.0	1.6	2.6	10.6	55.6	17.4	72.3	2.2	5.5
20 TO 49 EMPLOYEES E1	159	5.0	36.7	2.6	3.6	15.9	80.7	34.0	113.9	3.3	6.0
50 TO 99 EMPLOYEES	51	3.6	29.4	2.2	3.7	15.9	61.7	26.9	86.7	2.7	8.2
100 TO 249 EMPLOYEES	34	5.3	48.1	2.9	5.0	22.1	108.6	34.9	144.5	2.8	10.2
250 TO 499 EMPLOYEES	17	5.8	47.2	2.4	4.3	19.0	99.2	27.8	127.7	1.4	8.9
500 TO 999 EMPLOYEES	7	4.8	38.9	2.1	4.0	13.0	87.4	85.5	172.7	2.1	11.2
1,000 TO 2,499 EMPLOYEES	4	7.9	78.7	2.1	4.1	19.9	178.3	40.0	218.8	3.0	9.4
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 052	2.3	18.2	2.0	2.8	11.8	60.6	14.9	75.5	2.5	5.9
2741-11 PUBLISHING ONLY											
ESTABLISHMENTS, TOTAL.	1 904	27.1	224.1	13.5	21.7	93.2	553.1	224.7	775.9	14.8	55.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	1 269	2.0	15.5	1.8	2.3	9.5	56.1	13.7	69.7	5.7	4.7
5 TO 9 EMPLOYEES	283	1.8	14.6	1.2	2.0	8.4	45.7	14.9	60.5	(D)	3.9
10 TO 19 EMPLOYEES	164	2.3	17.9	1.4	2.2	9.0	49.5	15.7	64.6	(D)	5.4
20 TO 49 EMPLOYEES	113	3.4	25.8	1.8	2.2	11.1	57.4	25.2	82.1	1.5	3.9
50 TO 99 EMPLOYEES	36	2.5	20.8	1.6	2.3	11.3	42.8	22.2	63.1	2.0	6.2
100 TO 249 EMPLOYEES	21	3.4	32.4	1.6	2.8	12.8	74.9	25.1	101.4	1.7	8.8
250 TO 499 EMPLOYEES	11	4.1	31.4	1.2	2.2	8.4	70.3	20.4	90.5	.9	5.7
500 TO 999 EMPLOYEES	5	7.6	65.7	2.9	5.6	22.8	156.5	87.5	244.2	2.8	16.7
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 052	2.3	18.2	2.0	2.8	11.8	60.6	14.9	75.5	2.5	5.9

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of receipts (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
2741- MISCELLANEOUS PUBLISHING--CONTINUED											
2741-13 PUBLISHING AND PRINTING											
ESTABLISHMENTS, TOTAL.	137	11.7	107.1	5.6	10.1	41.8	222.6	71.4	294.3	7.9	12.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	7	(Z)	.1	(Z)	(Z)	.1	.5	.2	.7	1.7	(Z)
5 TO 9 EMPLOYEES	17	.1	.9	.1	.2	.6	1.9	.8	2.6	(D)	.2
10 TO 19 EMPLOYEES	29	.4	3.1	.2	.4	1.6	6.1	1.8	7.9	(D)	.1
20 TO 49 EMPLOYEES	46	1.4	11.0	.8	1.4	4.9	23.3	8.7	31.9	1.8	2.0
50 TO 99 EMPLOYEES	15	1.1	8.5	.6	1.4	4.6	18.9	4.7	23.5	.7	2.0
100 TO 249 EMPLOYEES	13	1.9	15.9	1.3	2.2	9.4	33.7	9.7	43.1	1.1	1.4
250 TO 499 EMPLOYEES	6	1.7	15.9	1.2	2.1	10.6	28.9	7.5	37.2	.5	3.2
500 TO 999 EMPLOYEES	2	5.0	51.9	1.3	2.5	10.1	109.3	38.0	147.4	2.1	3.8
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of receipts (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
2711	NEWSPAPERS										
	ENTIRE INDUSTRY	8 116	348.9	3 170.8	169.8	298.8	1 537.8	6 225.6	2 045.2	8 270.1	359.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	7 610	329.3	3 034.2	158.5	278.8	1 465.8	5 949.2	1 945.6	7 894.6	342.3
27111	DAILY, SUNDAY NEWSPAPERS, SUBSCRIPTIONS AND SALES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	52	3.9	37.8	1.9	3.8	18.9	71.6	20.9	92.5	5.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	25	1.0	6.6	.4	.8	2.8	13.6	3.2	16.8	1.2
27112	DAILY, SUNDAY NEWSPAPERS, ADVERTISING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	1 398	281.4	2 738.7	132.2	236.5	1 336.1	5 354.6	1 759.5	7 113.6	308.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	576	131.0	1 257.2	59.9	107.4	595.3	2 585.3	869.7	3 454.8	179.2
27113	WEEKLY, OTHER NEWSPAPERS, SUBSCRIPTIONS AND SALES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	144	3.4	23.4	1.7	3.0	10.0	52.4	21.0	73.4	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	63	1.4	10.3	.6	1.1	3.9	25.9	10.1	36.0	.8
27114	WEEKLY, OTHER NEWSPAPERS, ADVERTISING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	1 248	32.6	204.0	16.7	27.2	91.1	396.4	131.6	527.9	20.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	604	15.8	100.3	6.9	10.8	36.7	195.6	64.1	259.7	11.1
2721	PERIODICALS										
	ENTIRE INDUSTRY	2 535	66.6	709.7	11.2	21.1	84.6	2 114.5	1 410.0	3 521.3	56.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	2 456	55.8	608.2	8.9	16.7	67.0	1 789.2	1 166.4	2 954.1	51.6
27211	FARM PERIODICALS, SUBSCRIPTIONS AND SALES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	9	.1	1.0	.1	.1	.4	1.7	1.0	2.7	(Z)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27212	FARM PERIODICALS, ADVERTISING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	44	1.9	17.9	.4	.8	3.6	42.2	22.2	64.6	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	35	1.1	10.7	.2	.5	1.9	25.9	12.0	38.0	.3
27213	BUSINESS, PROFESSIONAL PERIODICALS/SUBSC. AND SALES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	120	5.7	54.8	1.1	2.1	8.4	123.5	54.2	177.7	2.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	76	3.1	30.5	.7	1.3	4.6	70.2	30.5	100.6	.8
27214	BUSINESS, PROFESSIONAL PERIODICALS/ADVERTISING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	324	19.4	226.6	2.9	5.8	25.3	540.2	212.3	751.3	26.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	248	14.3	168.0	2.1	4.4	17.7	396.9	150.0	547.5	24.6
27215	GENERAL PERIODICALS, SUBSCRIPTIONS AND SALES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	133	10.6	110.4	1.4	2.7	10.4	465.4	346.6	812.7	9.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	73	1.7	18.3	.4	.8	3.2	52.4	59.4	111.4	.5
27216	GENERAL PERIODICALS, ADVERTISING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	124	14.6	182.7	.7	1.4	6.2	651.0	594.5	1 244.2	8.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	63	1.8	18.1	.3	.6	1.9	48.1	32.0	80.1	1.6
27217	OTHER PERIODICALS EXC. DIRECTORIES, CATALOGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	148	9.3	73.2	3.0	5.7	21.1	162.6	106.1	267.4	7.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	119	6.0	49.6	1.6	2.8	10.0	118.9	85.4	204.8	4.1

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of receipts (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2731	BOOK PUBLISHING										
	ENTIRE INDUSTRY	1 205	57.1	557.6	16.2	31.4	128.6	1 935.8	959.9	2 856.8	48.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 153	47.2	470.1	11.4	22.2	889.2	1 665.5	809.7	2 436.3	43.3
27311	TEXTBOOKS, INCLUDING TEACHERS' EDITIONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	104	16.9	179.9	2.9	6.0	24.3	650.2	307.1	940.7	23.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	80	7.9	79.9	1.4	2.9	11.9	251.9	144.3	399.7	10.3
27313	TECHNICAL, SCIENTIFIC AND PROFESSIONAL BOOKS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	97	11.5	115.1	5.7	10.9	45.6	243.1	97.0	336.6	6.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	75	9.3	93.7	5.0	9.7	40.7	188.2	68.4	254.0	4.4
27314	RELIGIOUS BOOKS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	42	3.6	29.2	1.2	2.0	7.1	86.3	62.0	139.6	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	31	1.6	12.6	.5	.8	2.5	47.0	33.2	76.6	.9
27315	GENERAL BOOKS (TRADE, ETC.) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	121	12.8	119.9	2.4	4.9	19.8	571.2	296.2	859.8	8.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	95	5.5	51.8	.6	1.2	4.5	286.6	137.7	417.3	4.1
27317	GENERAL REFERENCE BOOKS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	32	5.0	48.7	.4	.8	3.5	190.0	96.7	287.3	1.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	24	2.6	30.2	.2	.4	1.4	67.9	56.6	124.9	.8
27318	OTHER BOOKS (EXCLUDING PAMPHLETS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	34	1.8	12.7	.9	1.5	5.0	37.1	19.6	56.0	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	28	.9	7.3	.3	.6	2.1	25.4	14.0	39.6	.4
27319	PAMPHLETS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	30	1.1	9.6	.6	1.1	4.4	21.8	10.5	32.1	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	23	.7	6.6	.4	.9	3.5	17.4	7.2	24.5	.3
2732	BOOK PRINTING										
	ENTIRE INDUSTRY	700	40.9	361.2	33.0	64.5	269.0	604.5	332.4	937.6	33.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	554	28.2	234.9	22.8	44.0	173.9	385.1	210.0	597.7	24.8
27321	BOOKS, PRINTING ONLY, LITHOGRAPHIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	62	2.8	26.0	2.3	4.4	20.1	48.2	20.6	69.1	2.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	41	1.7	14.9	1.4	2.6	11.9	27.1	12.1	39.3	1.7
27322	BOOKS, PRINTING AND BINDING, LITHOGRAPHIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	128	23.7	209.2	19.0	38.1	155.1	336.4	187.7	524.6	18.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	69	11.2	90.7	9.0	17.5	65.4	155.5	80.3	238.0	9.9
27323	PAMPHLETS, WORKBOOKS, PRINTING ONLY, LITHOGRAPH. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	59	1.7	17.6	1.4	2.6	11.9	29.2	19.3	48.5	1.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	30	.5	6.2	.4	.8	4.0	10.0	6.6	16.7	.7
27324	PAMPHLETS, WORKBOOKS, PRINTING, BINDING, LITHO. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	67	2.7	28.6	2.2	4.2	21.6	58.3	36.4	94.8	2.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	24	.7	8.2	.5	1.1	5.8	12.9	7.8	20.5	.6
27325	BOOKS, PRINTING ONLY, OTHER THAN LITHOGRAPHIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	24	.8	6.9	.7	1.2	5.2	10.2	4.0	14.2	.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	18	.6	4.6	.5	.8	3.3	7.2	2.8	9.9	.2
27326	BOOKS, PRINTING, BINDING, OTHER THAN LITHO. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	30	4.9	39.6	4.1	8.1	31.5	56.9	31.6	89.0	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	16	2.6	18.8	2.2	4.3	14.4	25.6	19.2	45.4	.7
27327	PAMPHLETS, WORKBOOKS, PRINTING/BINDING, NOT LITH. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	28	.6	4.7	.5	.8	3.3	9.2	3.7	12.4	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	18	.4	3.2	.3	.6	2.3	7.0	2.7	9.2	.3
2741	MISCELLANEOUS PUBLISHING										
	ENTIRE INDUSTRY	2 041	38.8	331.2	19.1	31.7	135.0	775.7	296.1	1 070.2	22.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 994	36.6	311.0	18.0	29.8	127.3	732.5	264.0	995.4	19.8
27411	CATALOGS AND DIRECTORIES PUBLISHING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	106	7.4	60.5	2.1	3.5	13.7	134.4	91.6	225.9	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	99	7.2	58.1	2.0	3.4	13.3	127.2	89.4	216.6	1.5
27412	BUSINESS SERVICE PUBLICATIONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	73	11.0	105.6	3.5	5.9	27.5	218.8	52.0	271.1	2.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	57	8.6	83.6	3.4	5.6	26.8	165.2	38.0	203.6	1.8
27413	OTHER MISCELLANEOUS PUBLISHING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	251	13.4	112.8	8.2	14.7	60.6	281.5	113.0	393.6	11.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	220	11.6	96.8	7.4	13.3	54.9	247.7	83.4	330.6	9.6

(D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Receipts; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of receipts					Value of primary product receipts			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
2711	Newspapers.....1972..	8,270.1	7,908.4	291.6	70.1	97	7,908.4	7,908.4	-	100
	.....1967..	5,757.1	5,549.8	159.1	48.2	97	5,549.8	5,549.8	-	100
2721	Periodicals.....1972..	3,521.3	3,025.3	387.0	109.0	89	3,197.7	3,025.3	172.4	95
	.....1967..	3,095.9	2,599.5	335.8	160.6	89	2,668.2	2,599.5	68.7	97
2731	Book publishing.....1972..	2,856.8	2,512.1	190.5	154.2	93	2,915.4	2,512.1	403.3	86
	.....1967..	2,134.8	1,944.2	108.4	82.2	95	2,255.3	1,944.2	311.1	86
2732	Book printing.....1972..	937.6	762.9	153.8	20.9	83	1,049.9	762.9	287.0	73
	.....1967..	787.4	626.6	149.7	11.1	81	900.3	626.6	273.7	70
2741	Miscellaneous publishing.....1972..	1,070.2	983.3	48.8	38.1	95	1,058.3	983.3	75.0	93
	.....1967..	605.3	540.6	43.3	21.4	93	608.6	540.6	68.0	89

- Represents zero.

TABLE 5C. Industry-Product Analysis—Receipts by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Newspapers (SIC 2711)	Periodicals (SIC 2721)	Book publishing (SIC 2731)	Book printing (SIC 2732)	Miscellaneous publishing (SIC 2741)	Other industries
	Total value and miscellaneous receipts.....	(X)	8,270.1	3,521.3	2,856.8	937.6	1,070.2	(X)
2711-	Newspapers.....	7,908.4	7,908.4	(¹)	-	-	(¹)	(¹)
	Daily and Sunday newspapers:							
27111	Receipts from subscriptions and sales.....	1,746.8	1,746.8	-	-	-	-	-
27112	Receipts from advertising.....	5,213.8	5,213.8	-	-	-	-	-
	Weekly and other newspapers:							
27113	Receipts from subscriptions and sales.....	106.9	106.9	-	-	-	(¹)	(¹)
27114	Receipts from advertising.....	386.5	386.5	-	-	-	(¹)	(¹)
27110	Newspapers, n.s.k.....	454.4	454.4	(¹)	-	-	(¹)	(¹)
2721-	Periodicals.....	3,197.7	8.7	3,025.3	136.5	(2-5)	13.4	(10-20)
	Farm periodicals:							
27211	Receipts from subscriptions and sales.....	14.2	(under 2)	12.6	(under 2)	-	-	(under 2)
27212	Receipts from advertising.....	61.7	(under 2)	53.6	-	-	(2-5)	(2-5)
	Specialized business and professional periodicals:							
27213	Receipts from subscriptions and sales.....	262.2	(under 2)	235.9	22.3	(under 2)	3.2	(under 2)
27214	Receipts from advertising.....	647.9	(under 2)	634.5	(5-10)	-	4.7	(under 2)
	General periodicals:							
27215	Receipts from subscriptions and sales.....	832.8	(under 2)	793.0	38.5	-	(under 2)	(under 2)
27216	Receipts from advertising.....	895.7	(under 2)	876.7	18.4	-	(under 2)	(under 2)
27217	Other periodicals, n.e.c., receipts from sub- scriptions sales, and advertising.....	282.1	6.0	217.9	48.8	(2-5)	(2-5)	5.0
27210	Periodicals, n.s.k.....	201.1	-	201.1	-	-	-	-

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Receipts by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Newspapers (SIC 2711)	Periodicals (SIC 2721)	Book publishing (SIC 2731)	Book printing (SIC 2732)	Miscellaneous publishing (SIC 2741)	Other industries
Value and miscellaneous receipts--Continued								
2731-	Book publishing.....	2,915.4	(under 2)	333.9	2,512.1	(under 2)	29.1	39.9
27311	Textbooks, including teacher's editions.....	809.6	-	4.7	791.5	(under 2)	11.5	(under 2)
27313	Technical, scientific and professional books.....	403.0	-	34.4	358.3	-	7.0	3.3
27314	Religious books.....	131.2	(under 2)	11.3	117.0	(under 2)	(under 2)	1.5
27315	General books (trade etc.).....	1,006.7	-	258.5	725.8	-	(5-10)	(10-20)
27317	General reference books.....	235.3	-	(2-5)	228.6	(under 2)	2.1	-
27318	Other books (excluding pamphlets).....	125.4	-	15.6	91.6	-	(under 2)	(10-20)
27319	Pamphlets.....	48.7	(under 2)	(2-5)	44.5	(under 2)	0.9	(under 2)
27310	Books and pamphlets, n.s.k.....	155.5	(under 2)	-	154.8	-	-	(under 2)
2732-	Book printing.....	1,049.9	2.7	(under 2)	4.9	762.9	(under 2)	277.1
27321	Books, printing only lithographic.....	108.9	-	-	(under 2)	62.9	-	(20-50)
27322	Books, printing and binding, lithographic.....	489.5	(under 2)	(under 2)	(2-5)	416.0	-	71.0
27323	Pamphlets, workbooks, standardized and objective tests, printing only, lithographic.....	68.3	-	(under 2)	-	37.2	-	(20-50)
27324	Pamphlets, workbooks, standardized and objective tests, printing and binding, lithographic.....	129.5	(under 2)	(under 2)	-	63.9	-	65.6
27325	Books, printing only, other than lithographic.....	20.7	(under 2)	-	-	14.0	-	(5-10)
27326	Books, printing and binding, other than lithographic.....	115.1	-	-	-	73.1	-	42.0
27327	Pamphlets, workbooks, standardized and objective tests, printing only or printing and binding, other than lithographic.....	25.7	-	-	-	15.4	-	10.3
27320	Bookprinting, n.s.k.....	92.2	(2-5)	1.4	(under 2)	80.4	(under 2)	6.3
2741-	Miscellaneous publishing.....	1,058.3	14.7	33.7	16.7	2.5	983.3	7.4
27411	Catalogs and directories, publishing.....	244.1	-	9.7	(under 2)	(under 2)	233.9	(under 2)
27412	Business service publications.....	241.9	-	(5-10)	(under 2)	(under 2)	232.4	(under 2)
27413	Other miscellaneous publishing.....	401.1	14.7	17.1	14.6	2.4	346.4	5.9
27410	Miscellaneous publishing, n.s.k.....	171.2	-	(under 2)	-	-	170.6	(under 2)
Other product receipts by 4-digit product group:								
2751-	Commercial printing, letterpress.....	(X)	110.2	6.4	1.1	17.6	2.2	(X)
2752-	Commercial printing, lithographic.....	(X)	132.0	8.8	8.4	106.7	1.1	(X)
2754-	Commercial printing, gravure.....	(X)	5.5	-	-	(under 2)	-	(X)
2761-	Manifold business forms.....	(X)	(under 2)	-	-	3.4	-	(X)
2789-	Bookbinding and related work.....	(X)	-	(under 2)	12.9	3.4	(under 2)	(X)
2791-	Typesetting.....	(X)	7.9	0.9	(under 2)	11.9	(under 2)	(X)
2793-	Photoengraving.....	(X)	8.5	-	(under 2)	(under 2)	(under 2)	(X)
	Other secondary products.....	(X)	(under 2)	(under 2)	11.8	4.6	1.6	(X)
	Miscellaneous receipts.....	(X)	70.1	109.0	154.2	20.9	38.1	(X)
93000	Contract work.....	(X)	0.2	5.0	51.4	(under 2)	6.4	(X)
99989	Resales.....	(X)	22.4	71.8	65.8	11.3	19.9	(X)
99980	Other miscellaneous receipts.....	(X)	47.5	32.2	37.0	(5-10)	11.9	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries			
	Listing of the other industries with over \$2 million receipts of the primary products			Listing of the other industries with over \$2 million receipts of the primary products--Continued				
2721-	2752 Commercial printing, lithographic.....	10.1	2732-	2751 Commerical printing, letterpress.....	45.7			
				2752 Commerical printing, lithographic.....	206.9			
2731-	2752 Commercial printing, lithographic.....	3.2		2754 Commerical printing, gravure.....	(2-5)			
	2771 Greeting card publishing.....	(10-20)		2771 Greeting card publishing.....	(2-5)			
3944	Games, toys, and children's vehicles.....	(10-20)	2741-	3944 Games, toys and children's vehicles....	(2-5)			

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

¹An insignificant amount reported for this industry is included with the figure for the Newspapers Industry.

TABLE 6A. Products and Product Classes—Quantity and Value of Receipts/Shipments of Products: 1972 and 1967

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972		1967	
		Aggregate average circulation per issue ¹ (1,000)	Total receipts (million dollars)	Aggregate average circulation per issue ¹ (1,000)	Total receipts (million dollars)
2711- --	NEWSPAPER, TOTAL.....	(X)	7,908.4	(X)	5,549.8
	Total receipts for daily and Sunday newspapers ²	(X)	6,960.6	(X)	4,961.6
27111 --	Daily and Sunday Newspapers, Receipts from Subscriptions and Sales	(X)	1,746.8	(X)	1,309.1
27111 01	Morning (no Sunday editions).....	3,770	96.4	3,442	71.4
27111 11	Evening (no Sunday editions).....	12,917	273.3	14,446	225.3
27111 22	Morning and Sunday:				
	Morning editions.....	13,683	465.1	13,482	349.3
	Sunday editions.....	18,043		18,141	
27111 32	Evening and Sunday:				
	Evening editions.....	14,221	387.8	14,172	274.2
	Sunday editions.....	16,136		17,380	
27111 42	Morning and evening (no Sunday):				
	Morning editions.....	353	17.6	252	10.4
	Evening editions.....	412		399	
27111 52	Morning, evening, and Sunday:				
	Morning editions.....	10,949	502.9	10,754	378.2
	Evening editions.....	8,691		9,580	
	Sunday editions.....	17,766		16,608	
27111 00	Daily and Sunday newspapers, receipts from subscriptions and sales, n.s.k.....	(X)	3.7	(X)	.4
27112 --	Daily and Sunday Newspapers, Receipts from Advertising.....	(X)	5,213.8	(X)	3,652.5
27112 01	Morning (no Sunday editions).....	(X)	183.9	(X)	134.7
27112 11	Evening (no Sunday editions).....	(X)	747.9	(X)	683.6
27112 22	Morning and Sunday.....	(X)	1,341.0	(X)	951.2
27112 32	Evening and Sunday.....	(X)	1,253.7	(X)	780.1
27112 42	Morning and evening (no Sunday editions).....	(X)	45.3	(X)	30.9
27112 52	Morning, evening, and Sunday.....	(X)	1,633.8	(X)	1,064.9
27112 00	Daily and Sunday newspapers: receipts from advertising, n.s.k.....	(X)	8.2	(X)	7.1
	Total receipts for weekly and other newspapers.....	(X)	³ 493.4	(X)	³ 321.4
27113 --	Weekly and Other Newspapers, Receipts from Subscriptions and Sales.	(X)	106.9	(X)	78.2
27113 62	Weekly newspapers, including those issued on Sunday only.....	(⁴)	86.0	(⁴)	65.9
27113 98	Other newspapers, including those issued more frequently than once a week but less than four times a week, and those issued less frequently than once a week.....	(⁴)	20.9	(⁴)	12.3
27114 --	Weekly and Other Newspapers, Receipts from Advertising.....	(X)	386.5	(X)	243.2
27114 62	Weekly newspapers, including those issued on Sunday only.....	(X)	290.7	(X)	182.3
27114 98	Other newspapers, including those issued more frequently than once a week but less than four times a week, and those issued less frequently than once a week.....	(X)	95.8	(X)	60.9
27110 00	Newspapers not specified by frequency and receipts undistributed between subscriptions and sales and advertising for companies with 10 employees or more. (See note.).....	(X)	185.3	(X)	84.9
27110 02	Newspapers not specified by frequency and receipts undistributed between subscriptions and sales and advertising for companies with less than 10 employees. (See note.).....	(X)	269.1	(X)	³ 181.9
2721- --	PERIODICALS, TOTAL.....	(X)	3,197.7	(X)	2,668.2
27211 --	Farm Periodicals, Receipts from Subscriptions and Sales.....	13,103	14.2	12,115	11.3
27211 12	General (agriculture, farmlife, etc.).....	11,092	10.3	10,219	9.2
27211 16	Specialized (stockbreeding, animal produce, cash crop marketing, fisheries, hunting, etc.).....	2,011	3.9	1,896	2.1
27211 00	Farm periodicals, receipts from subscriptions and sales, n.s.k..	(X)	(Z)	(X)	-
27212 --	Farm Periodicals, Receipts from Advertising.....	(X)	61.7	(X)	45.7
27212 11	General (agriculture, farmlife, etc.).....	(X)	38.4	(X)	31.9
27212 15	Specialized (stockbreeding, animal produce, cash crop marketing, fisheries, hunting, etc.).....	(X)	22.8	(X)	13.8
27212 00	Farm periodicals, receipts from advertising.....	(X)	.5	(X)	-
27213 --	Specialized Business and Professional Periodicals, Receipts from Subscriptions and Sales.....	(X)	262.2	(X)	149.6
27213 07	Industrial engineering, and technical (engineering sciences, technology; industry; trades, crafts; construction).....	17,609	79.4	12,952	44.8
27213 13	Merchandising (trade, commerce, communications, transport; commercial techniques, business management).....	(S)	81.9	(NA)	24.3
27213 17	Professional, institutional, and service (mathematics, natural sciences; philology, languages; medical sciences, public health; military art and science; education; social science, labor; law, public administration, welfare, insurance).....	11,924	97.8	8,303	72.2
27213 00	Specialized business and professional periodicals, receipts from subscriptions and sales, n.s.k.....	(X)	3.1	(X)	8.3

See footnotes at end of table.

TABLE 6A. | Products and Product Classes—Quantity and Value of Receipts/Shipments of Products: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972		1967	
		Aggregate average circulation per issue (1,000)	Total receipts (million dollars)	Aggregate average circulation per issue (1,000)	Total receipts (million dollars)
2721- --	PERIODICALS--Continued				
2714 --	Special Business and Professional Periodicals, Receipts from Advertising.....	(X)	647.9	(X)	524.9
27214 11	Industrial engineering, and technical (engineering sciences, technology; industry; trades, crafts, construction).....	(X)	279.6	(X)	307.9
27214 13	Merchandising (trade, commerce, communications, transport; commercial techniques, business management).....	(X)	214.7	(X)	120.7
27214 15	Professional, institutional and service (mathematics, natural sciences; philology, languages; medical sciences, public health; military art and science; education; social science, labor; law, public administration, welfare, insurance).....	(X)	151.8	(X)	87.2
27214 00	Specialized business and professional periodicals, receipts from advertising, n.s.k.....	(X)	1.8	(X)	9.1
27215 --	General Periodicals, Receipts from Subscription and Sales.....	(X)	832.8	(X)	593.5
27215 14	Comics issued periodically in frequencies up to and including yearly, (excludes comic supplements for Sunday newspapers)....	(S)	20.9	15,178	8.5
27215 43	Women and home services (fashion women's magazines; domestic science, housekeeping, home and garden management): Subscription.....	(S)	82.6	42,358	63.4
27215 45	Single copy.....	(S)	110.7	32,183	53.8
27215 53	General interest and entertainment (general articles, pictures, fiction; literature, geography, travel; history, biography; art, photography, music, humor, entertainment, indoor games; outdoor games; physical culture, sport): Subscription.....	(S)	286.1	90,955	231.8
27215 55	Single copy.....	(S)	195.2	45,612	158.2
27215 63	General news (news of interest to the general public): Subscription.....	16,934	94.6	8,038	47.6
27215 65	Single copy.....	2,671	16.2	1,614	10.8
27215 74	Business news (concerning business and industry, but directed to a broader readership than those engaged in business for a living), subscription and single copy.....	1,489	20.7	1,409	15.0
27215 00	General periodicals, receipts from subscriptions and sales, n.s.k.	(X)	5.8	(X)	4.4
27216 --	General Periodicals, Receipts from Advertising.....	(X)	895.7	(X)	879.5
27216 13	Comics issued periodically in frequencies up to and including yearly, (excludes comic supplements for Sunday newspapers)....	(X)	(D)	(X)	.4
27216 43	Women and home services (fashion women's magazines; domestic science, housekeeping, home and garden management).....	(X)	294.6	(X)	245.0
27216 53	General interest and entertainment (general articles, pictures, fiction; literature, geography, travel; history, biography; art, photography, music, humor, entertainment, indoor games; outdoor games; physical culture, sport).....	(X)	373.9	(X)	457.3
27216 63	General news (news of interest to the general public).....	(X)	212.1	(X)	145.8
27216 73	Business news--(concerning business and industry, but directed to a broader readership than those engaged in business for a living).....	(X)	12.4	(X)	24.9
27216 00	General periodicals, receipts from advertising, n.s.k.....	(X)	(D)	(X)	6.1
27217 --	Other Periodicals, Except Shopping News, Directories, or Catalogs, N.E.C.....	(X)	282.1	(X)	284.2
27217 03	Religious (religion, theology, church bulletins, local church papers, etc.): Receipts from subscriptions and single-copy sales.....	(S)	91.3	57,358	69.0
27217 33	Receipts from advertising.....	(X)	11.1	(X)	12.9
27217 05	Magazine and comic supplements for Sunday newspapers: Receipts from subscriptions and single-copy sales.....	16,828	9.3	24,912	21.0
27217 35	Receipts from advertising.....	(X)	37.1	(X)	47.5
27217 07	Periodicals, n.e.c., except shopping news, directories, or catalogs, but including periodicals such as children's and youth magazines, house organs, fraternal and club, etc.: Receipts from subscriptions.....	(S)	79.3	38,048	71.6
27217 08	Receipts from single-copy sales.....	(S)	9.2	6,897	14.1
27217 37	Receipts from advertising.....	(X)	39.9	(X)	36.4
27217 00	Other periodicals, except shopping news, directories, or catalogs, n.e.c., n.s.k.....	(X)	4.9	(X)	11.7
27210 00	Periodicals, n.s.k., for companies with 10 employees or more. (See note.).....	(X)	64.5	(X)	88.4
27210 02	Periodicals, n.s.k., for companies with less than 10 employees. (See note.).....	(X)	136.6	(X)	91.1

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Receipts/Shipments of Products: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2731- --	BOOK PUBLISHING, TOTAL.....		(X)	2,915.4	(X)	2,255.3
27311 --	Textbooks, Including Teachers' Editions.....		(X)	809.6	(X)	733.6
	Elementary textbooks (grades K-8):					
27311 11	Hardbound, including teachers' editions.....	Million.....	65.8	162.4	85.1	180.6
27311 12	Paperbound, including teachers' editions.....	..do.....	44.5	57.5	30.0	24.3
	High school textbooks (grades 9-12):					
27311 13	Hardbound, including teachers' editions.....	..do.....	40.5	132.4	36.3	122.7
27311 14	Paperbound, including teachers' editions.....	..do.....	7.3	12.8	11.6	14.9
	College textbooks, grades 13 and over (including private business and secretarial schools, post-high school, vocational schools, institutes, and training courses of college grade):					
27311 15	Hardbound.....	..do.....	57.1	277.3	41.2	226.6
27311 16	Paperbound.....	..do.....	(S)	45.1	16.7	32.7
	Workbooks, objective test, manuals, etc., paperbound:					
27311 21	Elementary (grade K-8).....	..do.....	69.7	53.8	124.3	88.6
27311 23	High school (grades 9-12).....	..do.....	21.3	23.4		
27311 25	College.....	..do.....	6.1	11.5		
27311 31	Standardized tests, including both tests and answer sheets (excluding textbook-related objective tests and manuals), paperbound.....	..do.....	24.1	14.2	(S)	28.5
27311 00	Textbooks, n.s.k.....		(X)	19.2	(X)	14.7
27313 --	Technical, Scientific, and Professional Books.....		(X)	403.0	(X)	240.2
	Law books, including supplements (designed for the profession):					
27313 15	Hardbound.....	Million.....	8.6	114.9	8.4	74.0
27313 17	Paperbound.....	..do.....	19.6	32.0		
	Medical books, including nursing and dental subjects (designed for the profession):					
27313 25	Hardbound.....	..do.....	6.6	55.9	8.5	41.0
27313 27	Paperbound.....	..do.....	(S)	3.2		
	Business books (nonfiction books on business for adult readers in the profession):					
27313 35	Hardbound.....	..do.....	4.2	37.9	3.7	20.1
27313 37	Paperbound.....	..do.....	1.1	4.1		
	Other technical, scientific, and professional books:					
27313 45	Hardbound.....	..do.....	(S)	80.2	15.5	93.5
27313 47	Paperbound.....	..do.....	25.0	54.9		
27313 00	Technical, scientific, and professional books, n.s.k.....		(X)	19.9	(X)	11.6
27314 --	Religious Books.....		(X)	131.2	(X)	110.4
27314 15	Bibles and testaments, hardbound and paperbound.....	Million.....	29.3	52.6	10.5	36.7
27314 23	Hymnals and devotionals, including prayer books and missals, hardbound and paperbound.....	..do.....	6.6	9.0	7.8	15.4
	Other religious books, including books of fiction or nonfiction dealing with religious subjects for adult and juvenile reading:					
27314 25	Hardbound.....	..do.....	18.3	30.0	14.7	29.7
27314 27	Paperbound.....	..do.....	39.7	28.3	24.1	15.7
27314 00	Religious books, n.s.k.....		(X)	11.3	(X)	12.9
27315 --	General Books (Trade, Etc.).....		(X)	1,006.7	(X)	657.7
	Adult trade books (fiction or nonfiction sold primarily through retail or wholesale booksellers at trade discounts):					
27315 41	Hardbound.....	Million.....	(S)	232.1	52.7	148.9
27315 43	Paperbound.....	..do.....	385.8	220.5	148.6	82.7
	Book club books:					
27315 15	Hardbound.....	..do.....	31.0	98.0	147.2	201.5
27315 17	Paperbound.....	..do.....	81.2	33.3		
27315 71	Other books sold primarily by direct mail, hardbound and paperbound.....	..do.....	44.9	198.2	(NA)	(NA)
27315 31	Wholesale paperbound books usually of digest size (4-1/4 inch x 6-1/2 inch) and distributed 50 percent or more through magazine wholesalers.....	..do.....	159.8	90.3	201.1	67.7
	Juvenile books (fiction or nonfiction sold primarily through retail or wholesale book dealers), excluding toy books:					
	Juvenile trade/library books, sold primarily through book-sellers at trade discounts (often referred to as "\$1 and over retail"):					
27315 55	Hardbound.....	..do.....	49.0	79.8	65.3	107.5
27315 57	Paperbound.....	..do.....	14.8	8.4		
27315 63	Mass merchandised juvenile books, sold through a wide variety of retail outlets (often referred to as "under \$1 retail").....	..do.....	(D)	(D)	144.3	35.1
27315 00	General books (trade, etc.), n.s.k.....		(X)	(D)	(X)	14.3

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Receipts/Shipments of Products: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2731- --	BOOK PUBLISHING--Continued					
27317 --	General Reference Books.....		(X)	235.3	(X)	(NA)
	Subscription reference books:					
27317 21	Encyclopedias.....	Million.....	12.7	166.9	33.1	216.3
27317 23	Religious.....	..do.....	(S)	3.6		
27317 25	Other.....	..do.....	12.6	28.0		
27317 27	Value of net retail sales.....		(X)	(S)	(X)	(NA)
	Other reference books:					
27317 41	Dictionaries and thesauruses.....	Million.....	5.7	12.7	(NA)	(NA)
27317 43	Atlases.....	..do.....	(S)	1.2	(NA)	(NA)
27317 49	Other.....	..do.....	(S)	19.5	(NA)	(NA)
27317 00	General reference books, n.s.k.....	..do.....	(X)	3.4	(NA)	(NA)
27318 --	Other Books, Excluding Pamphlets.....		(X)	125.4	(X)	(NA)
	Music books:					
27318 12	Hardbound.....	Million.....	(S)	2.9	(NA)	(NA)
27318 14	Paperbound.....	..do.....	15.4	10.3	(S)	(S)
	Other books, n.e.c.:					
27318 15	Hardbound.....	..do.....	18.6	68.1	29.5	108.1
27318 16	Paperbound.....	..do.....	10.2	18.9	17.8	14.9
27318 00	Other books, excluding pamphlets, n.s.k.....		(X)	25.2	(X)	21.4
27319 --	Pamphlets.....		(X)	48.7	(X)	(NA)
27319 43	Music.....	Million.....	20.1	6.2	(S)	(S)
27319 59	Other, including religious and text.....	..do.....	444.2	42.5	(NA)	43.7
27319 00	Pamphlets, n.s.k.....		(X)	-	(X)	(NA)
27310 00	Book publishing, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	94.8	(X)	60.8
27310 02	Book publishing, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	60.7	(X)	36.2
1972 product code	Product	Total receipts including interplant transfers (million dollars)				
		1972		1967		
2732- --	BOOK PRINTING, TOTAL.....		1,049.9		900.3	
27321 --	Books, Printing Only, Lithographic.....		108.9		96.0	
27321 11	Elementary and high school textbooks (hardbound and paperbound, for grades K through 12) and textbook-related teachers' editions and manuals, excluding workbooks, standardized tests, and objective tests.....		18.5			
27321 13	Technical, scientific, business and professional books, and college textbooks (except workbooks) for grades 13 and over, including private business and secretarial schools, post-high-school vocational schools, institutes, and training courses.....		21.8			
27321 15	General consumer and trade books, including adult and juvenile trade books, book club and direct mail books, and wholesaled paperbound books.....		31.1		96.0	
27321 17	Subscription reference books, including encyclopedias, religious subscription reference books, and other subscription reference books.....		2.7			
27321 19	All other books, n.e.c., including religious books and dictionaries (Bibles, testaments, hymnals, devotionals, thesauruses, atlases, etc.).....		21.7			
27321 00	Books, printing only, lithographic, n.s.k.....		13.0		(NA)	
27322 --	Books, Printing and Binding, Lithographic.....		489.5		345.9	
	Elementary and high school textbooks:					
27322 21	Hardbound.....		55.2			
27322 23	Paperbound.....		21.9			
	Technical, scientific, business and professional books, and college textbooks:					
27322 25	Hardbound.....		52.8			
27322 27	Paperbound.....		45.7			
	General consumer and trade books:					
27322 32	Hardbound.....		102.2			
27322 34	Paperbound.....		40.1		320.1	
	Subscription reference books, including encyclopedias, religious subscription reference books, and other subscription reference books:					
27322 36	Hardbound.....		41.5			
27322 38	Paperbound.....		3.9			
	All other books, n.e.c., including religious books and dictionaries (Bibles, testaments, hymnals, devotionals, thesauruses, atlases, etc.):					
27322 42	Hardbound.....		77.9			
27322 44	Paperbound.....		27.6			
27322 00	Books, printing and binding, lithographic, n.s.k.....		20.7		25.8	
27323 --	Pamphlets, Workbooks, Standardized and Objective Tests, Printing Only, Lithographic.....		68.3		58.9	
27323 51	Pamphlets (at least 5 but less than 49 pages exclusive of covers), excluding advertising circulars and pamphlets.....		63.8		58.9	
27323 61	Workbooks, standardized and objective tests.....		4.5		(NA)	
27324 --	Pamphlets, Workbooks, Standardized and Objective Tests, Printing and Binding, Lithographic.....		129.5		100.2	
27324 55	Pamphlets (at least 5 but less than 49 pages exclusive of covers), excluding advertising circulars and pamphlets.....		93.8		100.2	
27324 71	Workbooks, standardized and objective tests.....		35.7		(NA)	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Receipts/Shipments of Products: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
2732- --	BOOK PRINTING--Continued		
27325 --	Books, Printing Only, Other Than Lithographic:		
27325 11	Books, printing only, other than lithographic process.....	20.7	28.4
27326 --	Books, Printing and Binding, Other Than Lithographic.....	115.1	170.9
	Elementary and high school textbooks:		
27326 21	Hardbound.....	4.8	
27326 23	Paperbound.....	.6	
	Technical, scientific, business and professional books, and college textbooks:		
27326 25	Hardbound.....	15.7	
27326 27	Paperbound.....	2.3	
	General consumer and trade books:		
27326 32	Hardbound.....	36.0	
27326 34	Paperbound.....	22.0	151.0
	Subscription reference books, including encyclopedias, religious subscription reference books, and other subscription reference books:		
27326 36	Hardbound.....	(D)	
27326 38	Paperbound.....	(D)	
	All other books, n.e.c., including religious books, and dictionaries (Bibles, testaments, hymnals, devotionals, thesauruses, atlases, etc.):		
27326 42	Hardbound.....	8.8	
27326 44	Paperbound.....	23.6	
27326 00	Books, printing and binding, other than lithographic, n.s.k.....	-	19.9
27327 --	Pamphlets, Workbooks, Standardized and Objective Tests, Printing Only or Printing and Binding, Other Than Lithographic.....	25.7	(NA)
	Pamphlets (at least 5 but less than 49 pages exclusive of covers), excluding advertising circulars and pamphlets:		
27327 51	Printing only.....	8.4	15.5
27327 55	Printing and binding.....	13.5	39.4
	Workbooks, standardized and objective tests:		
27327 61	Printing only.....	2.1	(NA)
27327 71	Printing and binding.....	1.7	(NA)
27327 00	Pamphlets, workbooks, standardized and objective tests, printing only or printing and binding, other than lithographic, n.s.k.....	-	(NA)
27320 00	Book printing, n.s.k., for companies with 10 employees or more. (See note.).....	81.3	38.3
27320 02	Book printing, n.s.k., for companies with less than 10 employees. (See note.).....	10.9	6.7
2741- --	MISCELLANEOUS PUBLISHING, TOTAL.....	1,058.3	608.6
27411 --	Catalogs and Directories, Publishing.....	244.1	184.6
	Directories:		
27411 13	Telephone.....	117.5	
27411 15	Other, including business reference services.....	72.1	136.2
27411 21	Catalogs.....	52.4	42.6
27411 00	Catalogs and directories, n.s.k.....	2.1	5.8
27412 --	Business Service Publications.....	241.9	123.0
27412 13	Business service newsletters, excluding publications cumulated in looseleaf index form.....	44.9	16.5
27412 15	Other business service publications, looseleaf and hardbound, including tax, credit, and government regulations, cumulative indexes, etc.....	192.4	105.1
27412 00	Business service publications, n.s.k.....	4.6	1.4
27413 --	Other Miscellaneous Publishing.....	401.1	231.8
27413 11	Cards, other than greeting cards, including picture postcards, souvenir cards, etc.....	12.6	15.2
27413 21	Shopping news.....	73.7	26.4
27413 31	Sheet music (less than 5 pages), except music in book or pamphlet form.....	18.7	(S)
27413 65	Maps, hydrographic charts, atlases, gazetteers, and globe covers.....	61.3	54.5
27413 95	Racing forms.....	32.5	24.1
27413 96	Patterns, including clothing patterns.....		
27413 98	Other miscellaneous publications, (almanacs, yearbooks, etc.).....	185.5	95.9
27413 97	Micropublishing, including publishing of original material as well as republishing of printed matter in microform.....	10.2	(NA)
27413 00	Other miscellaneous publishing, n.s.k.....	6.6	4.9
27410 00	Miscellaneous publishing, n.s.k., for companies with 10 employees or more. (See note.).....	95.7	36.2
27410 02	Miscellaneous publishing, n.s.k., for companies with less than 10 employees. (See note.).....	75.5	33.0

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review. (Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

¹Includes paid, free, bulk, etc. The term "issue" has been defined to mean the sum of all "editions" published on a given day, in the case of the establishment publishing newspapers on a combined frequency-of-issue basis (morning and Sunday, evening and Sunday, etc.). Separate average circulation figures were figured for the morning editions, evening editions, and Sunday editions.

²Includes all daily and Sunday newspapers published in the United States whether in English or foreign languages. (See text for a more complete description of what constitutes a newspaper in the census of manufactures.)

³In 1972 and 1967 establishments with less than 10 employees were not required to file a report specifying their source of receipts.

⁴Circulation data for weekly and other newspapers is not shown because this information was not reported by many small newspapers.

TABLE 6B. Product Classes—Value of Receipts of All Manufacturing Establishments, by Geographic Area:
1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
DAILY AND SUNDAY NEWSPAPERS--RECEIPTS FROM SUBSCRIPTIONS AND SALES (27111)			DAILY AND SUNDAY NEWSPAPERS--RECEIPTS FROM ADVERTISING (27112)--Continued		
United States.....	1,746.8	1,313.8	Northeast Region--Continued		
Northeast Region.....	605.3	443.8	Middle Atlantic Division.....	1,043.0	766.3
New England Division.....	158.7	108.2	New York.....	575.1	434.4
Maine.....	CC	7.4	New Jersey.....	162.0	103.9
New Hampshire.....	5.8	4.1	Pennsylvania.....	305.9	228.0
Vermont.....	BB	2.1	North Central Region.....	1,403.2	1,031.0
Massachusetts.....	96.0	70.4	East North Central Division.....	1,044.1	764.3
Rhode Island.....	12.5	7.7	Ohio.....	307.8	223.0
Connecticut.....	31.9	16.5	Indiana.....	120.8	98.2
Middle Atlantic Division.....	446.7	335.6	Illinois.....	300.1	225.8
New York.....	256.4	195.1	Michigan.....	217.5	151.2
New Jersey.....	59.0	43.5	Wisconsin.....	97.9	66.0
Pennsylvania.....	131.2	97.0	West North Central Division.....	359.1	266.8
North Central Region.....	500.9	395.2	Minnesota.....	90.0	61.9
East North Central Division.....	373.2	298.6	Iowa.....	54.5	42.9
Ohio.....	104.1	82.8	Missouri.....	125.8	98.9
Indiana.....	45.3	38.5	North Dakota.....	9.9	7.1
Illinois.....	102.5	87.6	South Dakota.....	9.1	6.8
Michigan.....	84.0	58.1	Nebraska.....	34.1	22.0
Wisconsin.....	37.3	31.7	Kansas.....	35.8	27.3
West North Central Division.....	127.7	96.6	South Region.....	1,446.9	890.5
Minnesota.....	33.6	25.0	South Atlantic Division.....	793.3	482.4
Iowa.....	25.6	20.0	Delaware.....	EE	CC
Missouri.....	36.8	28.7	Maryland.....	71.6	54.4
North Dakota.....	4.4	3.3	District of Columbia.....	GG	GG
South Dakota.....	4.0	2.9	Virginia.....	75.6	48.7
Nebraska.....	12.1	8.3	West Virginia.....	28.4	19.1
Kansas.....	11.2	8.4	North Carolina.....	88.0	45.2
South Region.....	375.0	272.3	South Carolina.....	34.7	23.3
South Atlantic Division.....	212.7	144.8	Georgia.....	97.2	55.3
Delaware.....	BB	BB	Florida.....	266.9	142.6
Maryland.....	25.2	19.4	East South Central Division.....	201.1	125.3
District of Columbia.....	FF	19.8	Kentucky.....	50.2	31.5
Virginia.....	26.1	16.9	Tennessee.....	78.8	48.7
West Virginia.....	11.4	8.7	Alabama.....	51.5	33.5
North Carolina.....	26.5	24.1	Mississippi.....	20.6	11.5
South Carolina.....	10.6	CC	West South Central Division.....	452.6	282.7
Georgia.....	23.5	16.9	Arkansas.....	25.1	15.1
Florida.....	54.6	28.5	Louisiana.....	64.5	44.0
East South Central Division.....	64.1	48.9	Oklahoma.....	58.8	44.3
Kentucky.....	16.6	12.5	Texas.....	304.1	179.4
Tennessee.....	26.8	20.3	West Region.....	1,003.7	740.9
Alabama.....	15.1	12.2	Mountain Division.....	230.6	137.1
Mississippi.....	5.6	3.8	Montana.....	EE	8.8
West South Central Division.....	98.2	78.6	Idaho.....	12.6	8.3
Arkansas.....	7.8	6.4	Wyoming.....	4.3	BB
Louisiana.....	18.8	12.7	Colorado.....	77.7	44.1
Oklahoma.....	13.9	14.1	New Mexico.....	17.2	11.2
Texas.....	57.7	45.4	Arizona.....	68.2	FF
West Region.....	265.7	202.6	Utah.....	22.5	20.2
Mountain Division.....	58.1	40.7	Nevada.....	EE	8.7
Montana.....	BB	3.2	Pacific Division.....	773.1	603.7
Idaho.....	4.3	2.9	Washington.....	86.0	61.1
Wyoming.....	1.4	(NA)	Oregon.....	GG	38.0
Colorado.....	15.5	11.4	California.....	604.0	487.7
New Mexico.....	4.2	2.7	Alaska.....	5.6	BB
Arizona.....	16.1	9.0	Hawaii.....	FF	EE
Utah.....	7.8	6.7			
Nevada.....	BB	4.0	WEEKLY AND OTHER NEWSPAPERS--RECEIPTS FROM SUBSCRIPTIONS AND SALES (27113)		
Pacific Division.....	207.5	161.8	United States.....	106.9	78.2
Washington.....	29.9	21.7	Northeast Region.....	38.7	30.3
Oregon.....	13.1	10.3	New England Division.....	9.7	7.3
California.....	155.3	123.6	Massachusetts.....	6.6	5.1
Alaska.....	AA	AA	Connecticut.....	1.6	1.3
Hawaii.....	CC	BB	Middle Atlantic Division.....	29.0	23.0
DAILY AND SUNDAY NEWSPAPERS--RECEIPTS FROM ADVERTISING (27112)			New York.....	9.5	10.4
United States.....	5,213.8	3,660.4	New Jersey.....	5.3	3.3
Northeast Region.....	1,360.0	997.9	Pennsylvania.....	14.2	9.3
New England Division.....	317.0	231.6	North Central Region.....	32.9	22.2
Maine.....	15.7	10.1	East North Central Division.....	20.9	16.8
New Hampshire.....	11.7	7.3	Ohio.....	2.7	2.5
Vermont.....	8.3	4.3	Indiana.....	1.1	1.0
Massachusetts.....	172.3	131.8	Illinois.....	8.0	8.2
Rhode Island.....	29.4	20.6	Michigan.....	5.6	2.8
Connecticut.....	79.6	57.4	Wisconsin.....	3.6	2.4

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts of All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
WEEKLY AND OTHER NEWSPAPERS--RECEIPTS FROM SUBSCRIPTIONS AND SALES (27113)--Continued			WEEKLY AND OTHER NEWSPAPERS--RECEIPTS FROM ADVERTISING (27114)--Continued		
North Central Region--Continued			West Region--Continued		
West North Central Division.....	12.0	5.4	Pacific Division.....	83.1	56.1
Minnesota.....	2.5	1.7	Washington.....	10.9	5.7
Iowa.....	1.5	1.4	Oregon.....	6.4	BB
Missouri.....	6.1	1.3	California.....	61.6	45.2
South Region.....	20.0	16.1	Hawaii.....	4.2	AA
South Atlantic Division.....	11.3	11.2			
Maryland.....	2.6	1.8	FARM PERIODICALS--RECEIPTS FROM SUBSCRIPTIONS AND SALES (27211)		
Virginia.....	1.2	(NA)	United States.....	14.2	11.3
North Carolina.....	1.0	(NA)			
Florida.....	4.1	6.0	Northeast Region.....	3.4	3.3
East South Central Division.....	3.8	(NA)	Middle Atlantic Division.....	BB	BB
Kentucky.....	2.1	(NA)	Pennsylvania.....	BB	BB
West South Central Division.....	4.9	282.7			
Louisiana.....	1.1	15.1	North Central Region.....	7.2	5.3
Texas.....	3.2	179.4	East North Central Division.....	3.3	2.4
West Region.....	15.3	740.9	Illinois.....	1.7	(NA)
Mountain Division.....	1.9	137.1	West North Central Division.....	3.9	2.9
Pacific Division.....	13.4	603.7	Minnesota.....	AA	(NA)
Washington.....	2.0	61.1	Iowa.....	1.2	AA
California.....	10.3	487.7			
WEEKLY AND OTHER NEWSPAPERS--RECEIPTS FROM ADVERTISING (27114)			South Region.....	2.0	1.5
United States.....	386.5	243.2	South Atlantic Division.....	AA	(NA)
Northeast Region.....	97.8	61.2	West Region.....	1.5	1.2
New England Division.....	24.8	15.1	Mountain Division.....	AA	(NA)
Maine.....	1.9	1.1	Colorado.....	AA	(NA)
New Hampshire.....	1.4	1.3			
Massachusetts.....	13.0	8.2	FARM PERIODICALS--RECEIPTS FROM ADVERTISING (27212)		
Connecticut.....	7.3	3.5	United States.....	61.7	45.7
Middle Atlantic Division.....	73.0	46.1			
New York.....	27.9	16.5	Northeast Region.....	14.6	14.3
New Jersey.....	23.6	15.1	New England Division.....	BB	(NA)
Pennsylvania.....	21.5	14.5	Connecticut.....	BB	(NA)
North Central Region.....	128.0	77.7	Middle Atlantic Division.....	EE	EE
East North Central Division.....	99.3	57.9	New York.....	BB	3.9
Ohio.....	14.8	7.5	Pennsylvania.....	CC	CC
Indiana.....	4.5	3.5			
Illinois.....	49.6	28.8	North Central Region.....	38.8	23.5
Michigan.....	18.8	12.1	East North Central Division.....	18.5	13.4
Wisconsin.....	11.6	5.9	Ohio.....	CC	BB
West North Central Division.....	28.7	19.8	Illinois.....	7.6	6.6
Minnesota.....	8.3	6.4	Wisconsin.....	BB	BB
Iowa.....	5.1	3.8	West North Central Division.....	20.2	10.2
Missouri.....	8.1	5.4	Minnesota.....	CC	AA
Nebraska.....	3.6	2.2	Iowa.....	CC	4.0
Kansas.....	2.4	1.2	Missouri.....	1.7	3.1
South Region.....	63.4	42.8	Kansas.....	BB	(NA)
South Atlantic Division.....	38.6	27.8			
Maryland.....	8.7	6.2	South Region.....	4.7	4.9
Virginia.....	5.5	3.2	South Atlantic Division.....	1.0	1.3
North Carolina.....	6.8	1.3	East South Central Division.....	2.0	2.4
South Carolina.....	2.9	4.5	Kentucky.....	2.0	(NA)
Georgia.....	3.4	2.9	West South Central Division.....	1.7	1.2
Florida.....	9.2	8.2	Oklahoma.....	AA	(NA)
East South Central Division.....	10.2	6.1			
Kentucky.....	3.8	1.7	West Region.....	3.6	3.0
Tennessee.....	1.9	1.6	Mountain Division.....	AA	(NA)
Alabama.....	1.8	1.5	Colorado.....	AA	(NA)
Mississippi.....	2.6	1.4	Pacific Division.....	BB	BB
West South Central Division.....	14.6	8.9	California.....	BB	1.3
Arkansas.....	2.0	1.3			
Louisiana.....	2.8	1.8	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICALS--RECEIPTS FROM SUBSCRIPTIONS AND SALES (27213)		
Oklahoma.....	2.2	(NA)	United States.....	262.2	149.6
Texas.....	7.7	4.9			
West Region.....	97.3	61.5	Northeast Region.....	168.9	96.0
Mountain Division.....	14.1	5.5	New England Division.....	9.9	4.1
Montana.....	AA	(NA)	Massachusetts.....	BB	BB
Wyoming.....	1.1	(NA)	Connecticut.....	6.2	AA
Colorado.....	4.6	1.8	Middle Atlantic Division.....	158.9	91.8
New Mexico.....	1.6	(NA)	New York.....	140.8	79.6
Arizona.....	3.4	1.0	New Jersey.....	9.0	3.5
Utah.....	1.2	(NA)	Pennsylvania.....	9.1	8.8

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts of All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICALS--RECEIPTS FROM SUBSCRIPTIONS AND SALES (27213)--Continued			GENERAL PERIODICALS--RECEIPTS FROM SUBSCRIPTIONS AND SALES (27215)		
North Central Region.....	40.3	29.2	United States.....	832.8	593.5
East North Central Division.....	32.1	25.3	Northeast Region.....	554.6	435.3
Ohio.....	6.9	3.7	New England Division.....	26.7	16.5
Illinois.....	22.3	17.9	New Hampshire.....	CC	(NA)
Michigan.....	1.5	1.1	Connecticut.....	FF	EE
West North Central Division.....	8.2	3.9	Middle Atlantic Division.....	527.8	418.8
Minnesota.....	1.0	1.4	New York.....	GG	GG
Iowa.....	1.4	(NA)	New Jersey.....	3.3	BB
Missouri.....	4.6	2.2	Pennsylvania.....	GG	GG
Nebraska.....	AA	(NA)			
South Region.....	40.4	13.3	North Central Region.....	129.5	68.7
South Atlantic Division.....	FF	12.3	East North Central Division.....	91.6	45.0
Maryland.....	BB	BB	Ohio.....	2.9	2.5
District of Columbia.....	16.8	7.8	Indiana.....	BB	(NA)
Georgia.....	AA	AA	Illinois.....	GG	33.4
Florida.....	EE	(NA)	Michigan.....	1.4	BB
East South Central Division.....	1.8	(NA)	Wisconsin.....	4.2	BB
Tennessee.....	1.4	(NA)	West North Central Division.....	37.9	23.6
West South Central Division.....	BB	(NA)	Minnesota.....	AA	BB
Texas.....	2.6	(NA)	Iowa.....	FF	EE
			Missouri.....	7.1	BB
			Nebraska.....	AA	(NA)
West Region.....	12.7	11.1	South Region.....	107.5	68.3
Mountain Division.....	CC	CC	South Atlantic Division.....	105.0	66.3
Colorado.....	CC	CC	Maryland.....	FF	EE
Pacific Division.....	CC	BB	District of Columbia.....	57.5	GG
California.....	7.0	2.7	Florida.....	BB	(NA)
			West South Central Division.....	AA	AA
			Texas.....	AA	(NA)
SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICALS--RECEIPTS FROM ADVERTISING (27214)			West Region.....	41.2	21.2
United States.....	647.9	524.9	Mountain Division.....	1.5	(NA)
Northeast Region.....	402.4	308.1	Pacific Division.....	39.7	20.4
New England Division.....	33.8	11.8	Washington.....	AA	(NA)
Massachusetts.....	EE	BB	California.....	38.0	19.6
Connecticut.....	18.3	7.9			
Middle Atlantic Division.....	368.7	296.2	GENERAL PERIODICALS--RECEIPTS FROM ADVERTISING (27216)		
New York.....	303.1	245.5	United States.....	895.7	879.5
New Jersey.....	31.0	FF	Northeast Region.....	680.8	GG
Pennsylvania.....	34.6	FF	New England Division.....	37.8	FF
			New Hampshire.....	BB	(NA)
North Central Region.....	168.1	169.2	Massachusetts.....	1.5	2.7
East North Central Division.....	137.4	145.6	Connecticut.....	FF	EE
Ohio.....	47.7	36.4	Middle Atlantic Division.....	643.0	733.4
Indiana.....	AA	BB	New York.....	577.6	GG
Illinois.....	78.2	94.4	New Jersey.....	1.3	CC
Michigan.....	8.4	8.0	Pennsylvania.....	GG	GG
Wisconsin.....	AA	BB			
West North Central Division.....	30.7	23.6	North Central Region.....	120.9	69.5
Minnesota.....	18.0	13.6	East North Central Division.....	GG	32.8
Missouri.....	10.3	8.7	Ohio.....	8.2	4.8
South Region.....	44.7	28.4	Indiana.....	AA	(NA)
South Atlantic Division.....	28.0	16.2	Illinois.....	57.7	26.2
Maryland.....	2.7	BB	Michigan.....	1.5	AA
District of Columbia.....	12.8	6.7	Wisconsin.....	1.5	(NA)
South Carolina.....	AA	(NA)	West North Central Division.....	GG	36.7
Georgia.....	5.5	5.1	Iowa.....	FF	FF
Florida.....	5.1	1.3	Missouri.....	BB	BB
East South Central Division.....	BB	2.2	South Region.....	43.5	FF
Tennessee.....	AA	BB	South Atlantic Division.....	FF	FF
West South Central Division.....	EE	10.1	Maryland.....	BB	FF
Oklahoma.....	CC	CC	District of Columbia.....	FF	FF
Texas.....	7.3	4.0	Florida.....	1.9	(NA)
			East South Central Division.....	AA	(NA)
			Tennessee.....	AA	(NA)
West Region.....	32.7	19.3	West Region.....	50.4	23.8
Mountain Division.....	EE	CC	Mountain Division.....	AA	1.8
Colorado.....	CC	CC	Pacific Division.....	FF	22.1
Utah.....	BB	(NA)	Washington.....	1.4	AA
Pacific Division.....	FF	EE	California.....	47.5	20.7
California.....	21.4	8.9			

See footnotes at end of table.

**TABLE 6B. Product Classes—Value of Receipts of All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued**

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
OTHER PERIODICALS, EXCEPT SHOPPING NEWS, DIRECTORIES, OR CATALOGS, N.E.C. (27217)			TECHNICAL, SCIENTIFIC, AND PROFESSIONAL BOOKS (27313)--Continued		
United States.....	282.1	284.2	Northeast Region--Continued		
Northeast Region.....	114.4	135.9	Middle Atlantic Division.....	217.3	159.0
New England Division.....	8.0	5.1	New York.....	157.9	115.0
Vermont.....	AA	(NA)	New Jersey.....	17.2	22.0
Massachusetts.....	5.3	3.5	Pennsylvania.....	42.2	21.1
Middle Atlantic Division.....	106.4	130.8	North Central Region.....	119.0	61.1
New York.....	79.7	99.0	East North Central Division.....	52.9	26.6
New Jersey.....	10.2	CC	Ohio.....	6.6	1.7
Pennsylvania.....	16.5	FF	Indiana.....	EE	CC
North Central Region.....	101.2	94.1	Illinois.....	27.4	13.8
East North Central Division.....	77.8	70.5	Michigan.....	1.7	(NA)
Ohio.....	36.3	25.6	Wisconsin.....	BB	BB
Indiana.....	6.8	9.4	West North Central Division.....	GG	34.5
Illinois.....	31.8	32.0	Minnesota.....	GG	FF
Michigan.....	AA	(NA)	Missouri.....	EE	EE
Wisconsin.....	AA	BB	South Region.....	17.5	7.8
West North Central Division.....	23.4	23.5	South Atlantic Division.....	13.2	CC
Minnesota.....	BB	3.5	Maryland.....	CC	BB
Iowa.....	AA	(NA)	District of Columbia.....	1.4	(NA)
Missouri.....	18.8	19.5	Virginia.....	BB	(NA)
South Region.....	41.6	47.7	Georgia.....	AA	AA
South Atlantic Division.....	9.9	26.5	East South Central Division.....	AA	BB
Maryland.....	AA	(NA)	Alabama.....	AA	BB
District of Columbia.....	6.5	22.3	West South Central Division.....	BB	(NA)
East South Central Division.....	26.7	18.3	Texas.....	BB	(NA)
Tennessee.....	25.8	17.8	West Region.....	39.6	7.4
West South Central Division.....	5.1	2.8	Mountain Division.....	CC	(NA)
Louisiana.....	AA	(NA)	Colorado.....	CC	(NA)
Texas.....	3.5	2.4	Pacific Division.....	FF	CC
West Region.....	24.9	6.5	California.....	FF	CC
Pacific Division.....	FF	CC	RELIGIOUS BOOKS (27314)		
California.....	24.2	5.8	United States.....	131.2	110.4
TEXTBOOKS, INCLUDING TEACHERS' EDITIONS (27311)			Northeast Region.....	51.8	38.9
United States.....	809.6	733.6	New England Division.....	BB	AA
Northeast Region.....	536.6	536.0	Connecticut.....	BB	(NA)
New England Division.....	140.1	128.8	Middle Atlantic Division.....	FF	FF
Massachusetts.....	137.1	127.6	New York.....	25.3	21.7
Connecticut.....	BB	(NA)	New Jersey.....	16.7	CC
Middle Atlantic Division.....	396.5	407.1	Pennsylvania.....	CC	9.5
New York.....	353.1	317.4	North Central Region.....	51.1	46.0
New Jersey.....	22.9	77.3	East North Central Division.....	44.9	41.1
Pennsylvania.....	20.4	12.5	Ohio.....	CC	CC
North Central Region.....	233.7	167.2	Indiana.....	BB	BB
East North Central Division.....	213.1	155.2	Illinois.....	FF	16.4
Ohio.....	48.7	32.0	Michigan.....	14.7	14.3
Indiana.....	BB	BB	West North Central Division.....	6.2	4.9
Illinois.....	157.1	109.6	Missouri.....	BB	BB
Michigan.....	AA	BB	Kansas.....	AA	(NA)
Wisconsin.....	AA	7.9	South Region.....	21.3	18.5
West North Central Division.....	20.6	12.0	South Atlantic Division.....	3.8	BB
Minnesota.....	9.4	4.7	District of Columbia.....	AA	BB
Iowa.....	CC	4.2	North Carolina.....	AA	(NA)
Missouri.....	BB	BB	East South Central Division.....	16.3	13.4
South Region.....	13.5	EE	Tennessee.....	EE	13.4
West South Central Division.....	11.8	CC	West South Central Division.....	1.1	(NA)
Oklahoma.....	CC	BB	Texas.....	1.1	(NA)
Texas.....	CC	BB	West Region.....	7.1	7.0
West Region.....	25.8	EE	Pacific Division.....	CC	BB
Pacific Division.....	FF	15.7	California.....	CC	BB
California.....	FF	15.7	GENERAL BOOKS (TRADE, ETC.) (27315)		
TECHNICAL SCIENTIFIC, AND PROFESSIONAL BOOKS (27313)			United States.....	1,006.7	657.7
United States.....	403.0	240.2	Northeast Region.....	823.6	545.2
Northeast Region.....	226.9	163.8	New England Division.....	40.9	36.6
New England Division.....	9.5	4.8	Massachusetts.....	EE	EE
Massachusetts.....	CC	BB	Connecticut.....	FF	FF
Connecticut.....	BB	(NA)	Middle Atlantic Division.....	782.7	508.5
			New York.....	751.8	479.0
			New Jersey.....	19.6	20.7
			Pennsylvania.....	11.3	8.8

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts of All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
GENERAL BOOKS (TRADE, ETC.) (27315)—Continued			PAMPHLETS (27319)		
North Central Region.....	152.5	102.7	United States.....	48.7	(NA)
East North Central Division.....	122.3	GG	Northeast Region.....	11.9	(NA)
Ohio.....	FF	EE	New England Division.....	AA	(NA)
Indiana.....	BB	BB	Massachusetts.....	AA	(NA)
Illinois.....	73.5	35.8	Middle Atlantic Division.....	EE	(NA)
Wisconsin.....	EE	FF	New York.....	6.9	(NA)
West North Central Division.....	30.2	EE	Pennsylvania.....	2.7	AA
Minnesota.....	AA	(NA)	North Central Region.....	32.3	(NA)
Iowa.....	FF	EE	East North Central Division.....	29.0	(NA)
Missouri.....	AA	(NA)	Illinois.....	FF	(NA)
South Region.....	5.8	4.0	Michigan.....	1.2	(NA)
South Atlantic Division.....	3.6	(NA)	West North Central Division.....	3.3	(NA)
District of Columbia.....	BB	(NA)	Minnesota.....	BB	(NA)
East South Central Division.....	AA	BB	South Region.....	BB	(NA)
West Region.....	24.7	5.8	East South Central Division.....	1.9	(NA)
Pacific Division.....	FF	5.8	Tennessee.....	AA	(NA)
California.....	FF	5.8	West Region.....	AA	(NA)
			Pacific Division.....	AA	(NA)
			California.....	AA	(NA)
GENERAL REFERENCE BOOKS (27317)			BOOKS, PRINTING ONLY, LITHOGRAPHIC (27321)		
United States.....	235.3	(NA)	United States.....	108.9	(NA)
Northeast Region.....	78.3	(NA)	Northeast Region.....	47.0	(NA)
New England Division.....	CC	(NA)	New England Division.....	15.2	(NA)
Massachusetts.....	CC	(NA)	Vermont.....	AA	(NA)
Middle Atlantic Division.....	GG	(NA)	Massachusetts.....	10.0	(NA)
New York.....	63.3	(NA)	Rhode Island.....	AA	(NA)
New Jersey.....	CC	(NA)	Connecticut.....	BB	(NA)
North Central Region.....	146.5	(NA)	Middle Atlantic Division.....	31.8	(NA)
East North Central Division.....	GG	(NA)	New York.....	19.9	(NA)
Illinois.....	GG	(NA)	New Jersey.....	5.5	(NA)
South Region.....	CC	(NA)	Pennsylvania.....	6.4	(NA)
South Atlantic Division.....	AA	(NA)	North Central Region.....	29.6	(NA)
District of Columbia.....	AA	(NA)	East North Central Division.....	18.7	(NA)
East South Central Division.....	CC	(NA)	Indiana.....	AA	(NA)
Tennessee.....	CC	(NA)	Illinois.....	8.2	(NA)
West Region.....	BB	(NA)	Michigan.....	2.6	(NA)
Pacific Division.....	BB	(NA)	Wisconsin.....	CC	(NA)
California.....	BB	(NA)	West North Central Division.....	10.9	(NA)
			Minnesota.....	1.7	(NA)
			Iowa.....	BB	(NA)
			Missouri.....	3.5	(NA)
			Kansas.....	BB	(NA)
OTHER BOOKS (EXCLUDING PAMPHLETS) (27318)			South Region.....	25.6	(NA)
United States.....	125.4	(NA)	South Atlantic Division.....	20.5	(NA)
Northeast Region.....	35.2	(NA)	Maryland.....	11.1	(NA)
Middle Atlantic Division.....	35.0	(NA)	District of Columbia.....	8.0	(NA)
New York.....	29.5	(NA)	Virginia.....	AA	(NA)
New Jersey.....	BB	(NA)	East South Central Division.....	1.6	(NA)
Pennsylvania.....	AA	(NA)	West South Central Division.....	3.5	(NA)
North Central Region.....	60.7	(NA)	Texas.....	3.2	(NA)
East North Central Division.....	36.2	(NA)	West Region.....	6.7	(NA)
Ohio.....	CC	(NA)	Mountain Division.....	1.0	(NA)
Indiana.....	AA	(NA)	Pacific Division.....	5.7	(NA)
Illinois.....	FF	(NA)	California.....	4.9	(NA)
Wisconsin.....	AA	(NA)			
West North Central Division.....	24.5	(NA)	BOOKS, PRINTING AND BINDING, LITHOGRAPHIC (27322)		
Minnesota.....	BB	(NA)	United States.....	489.5	(NA)
Missouri.....	FF	(NA)	Northeast Region.....	132.8	(NA)
South Region.....	29.0	(NA)	New England Division.....	56.8	(NA)
South Atlantic Division.....	EE	(NA)	Massachusetts.....	38.2	(NA)
Maryland.....	CC	(NA)	Connecticut.....	2.2	(NA)
District of Columbia.....	8.0	(NA)	Middle Atlantic Division.....	76.1	(NA)
Florida.....	AA	(NA)	New York.....	53.1	(NA)
East South Central Division.....	EE	(NA)	New Jersey.....	6.1	(NA)
Kentucky.....	AA	(NA)	Pennsylvania.....	16.9	(NA)
Alabama.....	CC	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts of All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
BOOKS, PRINTING AND BINDING, LITHOGRAPHIC (27322)--Continued			PAMPHLETS, WORKBOOKS, STANDARDIZED AND OBJECTIVE TESTS, PRINTING AND BINDING, LITHOGRAPHIC (27324)--Continued		
North Central Region.....	197.8	(NA)	North Central Region.....	51.4	(NA)
East North Central Division.....	179.9	(NA)	East North Central Division.....	45.0	(NA)
Ohio.....	26.0	(NA)	Ohio.....	9.0	(NA)
Indiana.....	71.5	(NA)	Indiana.....	1.1	(NA)
Illinois.....	17.9	(NA)	Illinois.....	9.3	(NA)
Michigan.....	31.5	(NA)	Michigan.....	2.6	(NA)
Wisconsin.....	33.0	(NA)	Wisconsin.....	FF	(NA)
West North Central Division.....	17.8	(NA)	West North Central Division.....	6.4	(NA)
Minnesota.....	2.9	(NA)	Minnesota.....	1.7	(NA)
Missouri.....	9.2	(NA)	Missouri.....	3.2	(NA)
Kansas.....	CC	(NA)	Nebraska.....	1.0	(NA)
South Region.....	139.6	(NA)	South Region.....	26.3	(NA)
South Atlantic Division.....	FF	(NA)	South Atlantic Division.....	21.6	(NA)
Maryland.....	23.3	(NA)	Maryland.....	7.5	(NA)
District of Columbia.....	2.2	(NA)	District of Columbia.....	5.0	(NA)
North Carolina.....	CC	(NA)	Virginia.....	1.2	(NA)
Florida.....	7.0	(NA)	Georgia.....	3.8	(NA)
East South Central Division.....	59.3	(NA)	Florida.....	3.2	(NA)
Kentucky.....	EE	(NA)	East South Central Division.....	1.6	(NA)
Tennessee.....	FF	(NA)	West South Central Division.....	3.0	(NA)
Alabama.....	BB	(NA)	Texas.....	2.4	(NA)
West South Central Division.....	FF	(NA)	West Region.....	14.0	(NA)
Louisiana.....	AA	(NA)	Mountain Division.....	2.6	(NA)
Texas.....	FF	(NA)	Colorado.....	1.2	(NA)
West Region.....	19.3	(NA)	Pacific Division.....	11.5	(NA)
Mountain Division.....	4.1	(NA)	California.....	10.5	(NA)
Colorado.....	1.0	(NA)			
Utah.....	BB	(NA)	BOOKS, PRINTING ONLY, OTHER THAN LITHOGRAPHIC (27325)		
Pacific Division.....	15.2	(NA)	United States.....	20.7	(NA)
Washington.....	BB	(NA)	Northeast Region.....	12.1	(NA)
California.....	11.1	(NA)	New England Division.....	2.2	(NA)
PAMPHLETS, WORKBOOKS, STANDARDIZED AND OBJECTIVE TESTS, PRINTING ONLY, LITHOGRAPHIC (27323)			Massachusetts.....	1.5	(NA)
United States.....	68.3	(NA)	Middle Atlantic Division.....	9.8	(NA)
Northeast Region.....	31.4	(NA)	New York.....	3.8	(NA)
New England Division.....	3.5	(NA)	New Jersey.....	BB	(NA)
Massachusetts.....	1.4	(NA)	Pennsylvania.....	AA	(NA)
Connecticut.....	1.7	(NA)	North Central Region.....	AA	(NA)
Middle Atlantic Division.....	27.9	(NA)	East North Central Division.....	1.5	(NA)
New York.....	19.5	(NA)	South Region.....	4.9	(NA)
New Jersey.....	3.4	(NA)	South Atlantic Division.....	BB	(NA)
Pennsylvania.....	5.1	(NA)	Maryland.....	1.2	(NA)
North Central Region.....	15.5	(NA)	Florida.....	AA	(NA)
East North Central Division.....	10.7	(NA)	East South Central Division.....	AA	(NA)
Ohio.....	2.0	(NA)	Alabama.....	AA	(NA)
Illinois.....	7.1	(NA)	West Region.....	AA	(NA)
West North Central Division.....	4.8	(NA)	Pacific Division.....	AA	(NA)
Iowa.....	BB	(NA)	California.....	AA	(NA)
South Region.....	12.9	(NA)			
South Atlantic Division.....	9.6	(NA)	BOOKS, PRINTING AND BINDING, OTHER THAN LITHOGRAPHIC (27326)		
Florida.....	2.4	(NA)	United States.....	115.1	(NA)
East South Central Division.....	1.6	(NA)	Northeast Region.....	58.8	(NA)
Tennessee.....	1.1	(NA)	New England Division.....	FF	(NA)
West South Central Division.....	1.7	(NA)	Massachusetts.....	EE	(NA)
West Region.....	8.5	(NA)	Connecticut.....	1.6	(NA)
Mountain Division.....	5.3	(NA)	Middle Atlantic Division.....	FF	(NA)
Colorado.....	BB	(NA)	New York.....	16.3	(NA)
Pacific Division.....	3.2	(NA)	Pennsylvania.....	FF	(NA)
California.....	2.6	(NA)	North Central Region.....	36.8	(NA)
PAMPHLETS, WORKBOOKS, STANDARDIZED AND OBJECTIVE TEST, PRINTING AND BINDING, LITHOGRAPHIC (27324)			East North Central Division.....	30.5	(NA)
United States.....	129.5	(NA)	Ohio.....	CC	(NA)
Northeast Region.....	37.8	(NA)	Illinois.....	FF	(NA)
New England Division.....	9.4	(NA)	Wisconsin.....	BB	(NA)
Massachusetts.....	7.0	(NA)	West North Central Division.....	6.3	(NA)
Connecticut.....	2.0	(NA)	Missouri.....	CC	(NA)
Middle Atlantic Division.....	28.4	(NA)			
New York.....	17.0	(NA)			
New Jersey.....	2.0	(NA)			
Pennsylvania.....	9.4	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts of All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
BOOKS, PRINTING AND BINDING, OTHER THAN LITHOGRAPHIC (27326)—Continued			BUSINESS SERVICE PUBLICATIONS (27412)		
South Region.....	18.4	(NA)	United States.....	241.9	123.0
South Atlantic Division.....	EE	(NA)	Northeast Region.....	124.7	73.6
Maryland.....	BB	(NA)	New England Division.....	EE	(NA)
Virginia.....	CC	(NA)	Massachusetts.....	CC	(NA)
East South Central Division.....	CC	(NA)	Connecticut.....	EE	(NA)
Tennessee.....	CC	(NA)	Middle Atlantic Division.....	107.5	GG
West Region.....	1.2	(NA)	New York.....	62.9	GG
			New Jersey.....	44.2	FF
PAMPHLETS, WORKBOOKS, STANDARDIZED AND OBJECTIVE TEST, PRINTING ONLY OR PRINTING AND BINDING, OTHER THAN LITHOGRAPHIC (27329)			North Central Region.....	67.7	31.4
United States.....	25.7	(NA)	East North Central Division.....	63.5	FF
Northeast Region.....	9.7	(NA)	Ohio.....	3.9	1.7
New England Division.....	1.4	(NA)	Indiana.....	BB	AA
Middle Atlantic Division.....	8.3	(NA)	Illinois.....	GG	FF
New York.....	6.0	(NA)	Michigan.....	BB	(NA)
New Jersey.....	1.0	(NA)	West North Central Division.....	BB	(NA)
Pennsylvania.....	1.3	(NA)	Iowa.....	BB	(NA)
North Central Region.....	6.0	(NA)	South Region.....	25.1	11.4
East North Central Division.....	4.2	(NA)	South Atlantic Division.....	24.2	9.1
Illinois.....	2.3	(NA)	District of Columbia.....	EE	CC
West North Central Division.....	1.8	(NA)	Georgia.....	BB	(NA)
Missouri.....	AA	(NA)	Florida.....	BB	AA
South Region.....	4.0	(NA)	West Region.....	24.5	6.6
South Atlantic Division.....	2.2	(NA)	Mountain Division.....	CC	BB
East South Central Division.....	1.1	(NA)	Colorado.....	CC	BB
West Region.....	6.1	(NA)	Pacific Division.....	EE	BB
Mountain Division.....	BB	(NA)	California.....	EE	2.3
Colorado.....	AA	(NA)	OTHER MISCELLANEOUS PUBLISHING (27413)		
Pacific Division.....	BB	(NA)	United States.....	401.1	231.8
Washington.....	AA	(NA)	Northeast Region.....	123.3	82.2
California.....	BB	(NA)	New England Division.....	15.6	15.4
CATALOGS AND DIRECTORIES, PUBLISHING (27411)			New Hampshire.....	AA	(NA)
United States.....	244.1	184.6	Vermont.....	AA	(NA)
Northeast Region.....	73.5	52.1	Massachusetts.....	5.2	1.7
New England Division.....	3.0	3.3	Connecticut.....	7.3	12.6
Massachusetts.....	2.0	AA	Middle Atlantic Division.....	107.8	66.8
Middle Atlantic Division.....	70.4	48.8	New York.....	54.6	52.8
New York.....	51.6	40.9	New Jersey.....	22.6	11.0
New Jersey.....	EE	CC	Pennsylvania.....	30.6	3.0
Pennsylvania.....	CC	BB	North Central Region.....	186.6	116.5
North Central Region.....	141.8	94.0	East North Central Division.....	155.3	98.9
East North Central Division.....	124.2	85.4	Ohio.....	6.1	2.9
Ohio.....	12.0	8.3	Indiana.....	6.8	2.1
Indiana.....	FF	EE	Illinois.....	48.4	46.6
Illinois.....	GG	49.7	Michigan.....	90.8	46.0
Michigan.....	CC	CC	Wisconsin.....	3.1	1.3
West North Central Division.....	17.6	8.6	West North Central Division.....	31.3	17.6
Minnesota.....	CC	1.7	Minnesota.....	7.2	7.3
Iowa.....	AA	(NA)	Iowa.....	AA	(NA)
Missouri.....	CC	BB	Missouri.....	8.6	4.3
Kansas.....	3.5	AA	Nebraska.....	1.4	(NA)
South Region.....	21.7	EE	Kansas.....	EE	BB
South Atlantic Division.....	12.3	9.3	South Region.....	34.7	BB
District of Columbia.....	1.1	(NA)	South Atlantic Division.....	17.0	9.5
Virginia.....	EE	CC	Maryland.....	2.5	2.8
East South Central Division.....	BB	AA	District of Columbia.....	2.6	(NA)
Tennessee.....	BB	AA	Florida.....	10.2	(NA)
West South Central Division.....	CC	4.6	East South Central Division.....	10.4	4.2
Texas.....	CC	BB	Kentucky.....	BB	AA
West Region.....	7.0	FF	Tennessee.....	7.1	BB
Pacific Division.....	7.0	FF	West South Central Division.....	7.4	2.5
California.....	CC	FF	Louisiana.....	AA	(NA)
			Texas.....	5.7	AA
			West Region.....	56.4	23.7
			Mountain Division.....	9.6	(NA)
			Colorado.....	CC	(NA)
			Pacific Division.....	46.8	22.7
			California.....	45.6	19.8

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to 49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

TABLE 6C. Product Classes—Value of Receipts of All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2711	Newspapers.....	7,908.4	7,036.6	6,636.1	6,538.2	5,938.2	5,549.8	4,254.7	3,458.3
27111	Daily and Sunday newspapers, subscriptions and sales.....	1,746.8	1,802.4	1,663.5	1,529.9	1,418.8	1,309.1	1,064.4	916.7
27112	Daily and Sunday newspapers, advertising.....	5,213.8	4,469.9	4,207.4	4,319.0	3,904.6	3,652.5	2,727.5	2,208.7
27113	Weekly and other newspapers, subscriptions and sales.....	106.9	130.4	132.7	108.9	89.9	² 78.2	82.9	62.6
27114	Weekly and other newspapers, advertising.....	386.5	417.7	427.9	330.6	281.7	² 243.2	296.0	235.2
27110	Newspapers, n.s.k.....	454.4	216.2	(204.6)	249.8	243.2	² 266.8	83.9	35.2
2721	Periodicals.....	3,197.7	2,921.7	2,836.8	2,896.6	2,802.0	2,668.2	2,037.3	1,639.1
27211	Farm periodicals, subscriptions and sales.....	14.2	23.0	(22.8)	16.6	14.7	11.3	8.5	11.3
27212	Farm periodicals, advertising.....	61.7	47.4	43.6	58.7	55.0	45.7	45.6	55.4
27213	Business and professional periodicals, subscriptions and sales.....	262.2	221.8	220.5	216.2	186.9	149.6	122.7	86.3
27214	Business and professional periodicals, advertising.....	647.9	567.3	543.6	574.9	544.5	524.9	412.7	294.1
27215	General periodicals, subscriptions and sales.....	832.8	803.9	734.7	685.4	652.3	593.5	458.6	343.1
27216	General periodicals, advertising.....	895.7	855.2	861.3	909.9	887.1	879.5	710.6	543.9
27217	Other periodicals (except shopping news, catalogs, etc.)...	282.1	275.3	270.1	246.9	299.1	284.2	230.2	265.4
27210	Periodicals, n.s.k.....	201.1	127.8	(140.2)	188.0	162.5	179.5	48.5	39.6
2731	Book publishing.....	2,915.4	2,814.1	2,677.0	2,521.8	2,338.9	2,255.3	1,547.8	1,010.7
27311	Textbooks, including teachers' editions.....	809.6	846.8	815.9	790.8	748.4	733.6	471.1	281.6
27313	Technical, scientific, and professional books.....	403.0	364.7	311.0	276.2	260.8	240.2	156.3	116.0
27314	Religious books.....	131.2	106.9	98.1	107.5	103.4	110.4	81.1	58.6
27315	General books (trade, etc.).....	1,006.7	953.8	874.0	810.8	699.8	657.7	458.2	274.7
27317	General reference books ³	235.3	206.4	226.3	232.0	227.7	216.3	207.3	163.6
27318	Other books (excluding pamphlets).....	125.4	267.0	266.2	231.3	218.6	200.1	154.8	96.0
27319	Pamphlets.....	48.7	68.5	(85.5)	73.2	80.2	97.0	18.9	20.2
27310	Book publishing, n.s.k.....	155.5	68.5	(85.5)	73.2	80.2	97.0	18.9	20.2
2732	Book printing.....	1,049.9	949.6	904.5	1,005.1	943.6	900.3	607.0	422.9
27321	Books, printing only, lithographic.....	108.9	679.7	644.2	740.5	658.5	601.0	344.3	167.6
27322	Books, printing and binding, lithographic.....	489.5	679.7	644.2	740.5	658.5	601.0	344.3	167.6
27323	Pamphlets and workbooks, printing only, lithographic.....	68.3	679.7	644.2	740.5	658.5	601.0	344.3	167.6
27324	Pamphlets and workbooks, printing and binding, lithographic.....	129.5	679.7	644.2	740.5	658.5	601.0	344.3	167.6
27325	Books, printing only, other than lithographic.....	20.7	679.7	644.2	740.5	658.5	601.0	344.3	167.6
27326	Books, printing and binding, other than lithographic.....	115.1	679.7	644.2	740.5	658.5	601.0	344.3	167.6
27327	Pamphlet and workbooks, printing and binding, except lithographic.....	25.7	679.7	644.2	740.5	658.5	601.0	344.3	167.6
27320	Book printing, n.s.k.....	92.2	(34.8)	(36.2)	32.2	29.9	45.0	21.1	6.9
2741	Miscellaneous publishing.....	1,058.3	782.3	730.1	682.8	673.4	608.6	413.4	297.9
27411	Catalogs and directories, publishing.....	244.1	235.0	238.0	213.4	192.7	184.6	133.0	93.6
27412	Business service publications.....	241.9	213.7	192.7	167.4	140.8	123.0	101.6	64.3
27413	Other miscellaneous publishing.....	401.1	305.2	274.2	230.0	264.5	231.8	158.2	131.8
27410	Miscellaneous publishing, n.s.k.....	171.2	(28.4)	(25.2)	72.0	75.4	69.2	20.6	8.1

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²In 1967, establishments with less than 10-employees were not required to file a report specifying their source of receipts as had been required in previous censuses. A substantial portion of code 27110 would be included in codes 27113 and 27114 if they had reported.

³The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into this class of product represent approximately 14 percent of the total 1972 shipments at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2711.--NEWSPAPERS					
	Materials and supplies, total.....		(X)	1,819.4	(X)	1,438.2
262111	Newsprint.....	1,000 s. tons.	8,780.4	1,415.3	7,870.4	1,094.7
262131	Coated papers.....	...do.....	64.4	18.0	44.8	8.9
262101	All other paper.....	...do.....	44.2	22.5	61.1	17.0
289301	Printing inks, complete formulations.....	Million lb....	(S)	33.7	341.7	25.6
289301	Consumption of printing inks, complete formulations, produced and consumed in the same establishment.....	...do.....	(S)	(X)	76.7	(X)
386151	Unexposed lithographic plates and metal for lithographic plates..	...do.....	(X)	11.1	(NA)	(NA)
386101	Light sensitive film and papers.....	...do.....	(X)	16.5	(NA)	(NA)
386181	Photographic developers and chemicals used in plate preparation..	...do.....	(X)	8.9	(NA)	(NA)
976000	Materials, containers, supplies, n.s.k. ¹.....	...do.....	(X)	147.4	(X)	142.9
970099	All other materials and components, parts, containers, and supplies consumed.....	...do.....	(X)	146.0	(X)	149.1

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 2721.--PERIODICALS						
	Materials and supplies, total.....		(X)	538.6	(X)	510.3
262111	Newsprint.....	1,000 s. tons.	144.6	26.4	185.8	29.0
262131	Coated paper, all types.....	..do.....	945.3	264.5	1,161.5	286.5
262102	Uncoated papers.....	..do.....	129.2	47.0	145.4	33.1
262150	Bristol, cover, text, and other specialty papers uncoated.....	..do.....	44.7	11.4	(NA)	5.4
	Printing inks:					
289311	Letterpress, including news.....	Million lb....	(S)	13.6	(S)	18.2
289323	Lithographic.....	..do.....				
289305	Other, including gravure, flexographic, and screen process.....	..do.....				
386151	Unexposed lithographic plates and metal for lithographic plates...	..do.....	(X)	7.9	(NA)	(NA)
386101	Light sensitive films and papers.....	..do.....				
386181	Photographic developers and chemicals used in plate preparation...	..do.....				
976000	Materials, containers, supplies, n.s.k. ¹		(X)	79.3	(X)	59.4
970099	All other materials, container, and supplies consumed, including ink, metals, type, paper used for wrapping printed products, etc.....		(X)	88.5	(X)	78.7
289301	Consumption of printing inks, complete formulations, produced and consumed in this industry.....	Million lb....	(S)	(X)	5.2	(X)
INDUSTRY 2731.--BOOK PUBLISHING						
	Materials and supplies, total.....		(X)	260.3	(X)	252.4
262111	Newsprint.....	1,000 s. tons.	70.1	13.1	41.6	7.6
262131	Coated paper, all types.....	..do.....	190.2	63.9	167.6	57.8
262102	Uncoated papers.....	..do.....	187.7	61.2	213.8	72.6
262150	Bristol, cover, text, and other specialty papers uncoated.....	..do.....	14.9	3.9	39.6	14.2
289301	Printing inks.....	Million lb....	10.3	6.8	3.5	3.5
386151	Unexposed lithographic plates and metal for lithographic plates...		(X)	3.4	(X)	2.9
386101	Light sensitive films and papers.....		(X)	1.7	(NA)	(NA)
386181	Photographic developers and chemicals used in plate preparation...		(X)	.3	(NA)	(NA)
976000	Materials, containers, supplies, n.s.k. ¹		(X)	51.1	(X)	49.4
970099	All other materials, containers, and supplies consumed, including ink, metals, type, paper used for wrapping printed products, etc.....		(X)	54.9	(X)	44.4
INDUSTRY 2732.--BOOK PRINTING						
	Materials, containers, and supplies, total.....		(X)	277.7	(X)	224.4
262112	Newsprint.....		(X)	3.7	(X)	5.4
	Coated papers:					
262136	Coated one side.....		(X)	6.5	(X)	24.2
262138	Coated two sides.....		(X)	37.3		
262101	All other paper.....		(X)	74.8	(X)	62.9
263105	Paperboard (exclude that used for shipping).....		(X)	22.8	(X)	6.9
264140	Pressure sensitive base stock (self-adhesive) including all types, paper, film, foil, etc.....		(X)	.8	(NA)	(NA)
	Printing inks:					
289311	Letterpress, including news.....	Million lb....	5.0	2.1	(S)	4.6
289323	Lithographic.....	..do.....	(S)	10.5	5.6	6.5
289305	Other, including gravure, flexographic and screen process.....	..do.....	2.8	.6	(S)	.4
386151	Unexposed lithographic plates and metal for lithographic plates...		(X)	8.5	(X)	4.9
386101	Light sensitive films and papers.....		(X)	7.9	(X)	6.0
976000	Materials, containers, supplies, n.s.k. ¹		(X)	24.2	(X)	25.8
970099	All other materials and components, parts, containers, and supplies consumed; including metal type, etc.....		(X)	78.0	(X)	76.9
INDUSTRY 2741.--MISCELLANEOUS PUBLISHING						
	Materials, containers, and supplies, total.....		(X)	135.3	(X)	79.5
262111	Newsprint.....	1,000 s. tons.	^e 62.7	11.4	^e 37.9	5.4
262131	Coated paper, all types.....	..do.....	31.7	13.8	^e 17.5	6.7
262102	Uncoated paper (groundwood, book, bond, writing, ledger, and manifold).....	..do.....	^e 52.5	17.1	20.7	8.0
262150	Bristol, cover, text, and other specialty papers uncoated.....	..do.....	^e 6.0	2.7	^e 6.6	2.4
976000	Materials, containers, supplies, n.s.k. ¹		(X)	42.7	(X)	27.2
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	47.6	(X)	29.8

(X) Not applicable. (NA) Not available. (D) Withheld because the data did not meet publication standards. ^eFrom 10 to 30 percent of this figure was estimated.¹This item represents the total cost of materials for establishments that did not report detailed materials data.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 2711.—NEWSPAPERS					
	Purchased fuels and electric energy.....		(X)	38.2	(X)	32.3
	Purchased fuels, total.....		(X)	9.6	(X)	7.1
121005	Coal.....	1,000 s. tons.....	.8	(Z)	1.5	(Z)
331212	Coke.....	..do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	261.2	1.1	220.7	.8
291141	Distillate.....	..do.....	212.1	.9	142.4	.6
291151	Residual.....	..do.....	49.1	.2	78.3	.2
131300	Natural gas.....	Billion ft ³	8.4	3.7	3.2	2.3
960011	Other fuels.....		(X)	1.8	(X)	1.5
975000	Fuels, n.s.k.....		(X)	2.9	(X)	2.6
960012	Purchased electric energy.....	Million kWh.....	2,162.6	28.6	1,724.7	25.2
	Quantity of electric energy generated less quantity sold....	..do.....	188.3	-	.7	-
	Total energy used for heat and power.....	Bil. kWh equiv....	6.6	-	4.5	-
	INDUSTRY 2721.—PERIODICALS					
	Purchased fuels and electric energy.....		(X)	7.0	(X)	6.1
	Purchased fuels, total.....		(X)	1.2	(X)	1.6
121005	Coal.....	1,000 s. tons.....	-	-	-	-
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	19.6	.1	-	-
291141	Distillate.....	..do.....	5.9	(Z)	1.5	-
291151	Residual.....	..do.....	13.7	.1	-	-
131300	Natural gas.....	Billion ft ³	1.0	.4	-	-
960011	Other fuels.....		(X)	(Z)	(X)	.1
975000	Fuels, n.s.k.....		(X)	.6	(X)	1.6
960012	Purchased electric energy.....	Million kWh.....	380.1	5.8	245.4	4.5
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	.6	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.0	-	.9	-
	INDUSTRY 2731.—BOOK PUBLISHING					
	Purchased fuels and electric energy.....		(X)	5.4	(X)	3.2
	Purchased fuels, total.....		(X)	1.5	(X)	.9
121005	Coal.....	1,000 s. tons.....	-	-	-	-
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	66.5	.3	-	-
291141	Distillate.....	..do.....	23.2	.1	-	-
291151	Residual.....	..do.....	43.3	.2	-	-
131300	Natural gas.....	Billion ft ³.....	.9	.5	-	-
960011	Other fuels.....		(X)	.1	(X)	-
975000	Fuels, n.s.k.....		(X)	.6	(X)	.9
960012	Purchased electric energy.....	Million kWh.....	215.2	3.9	121.8	2.3
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.9	-	.5	-
	INDUSTRY 2732.—BOOK PRINTING					
	Purchased fuels and electric energy.....		(X)	9.0	(X)	6.3
	Purchased fuels, total.....		(X)	2.6	(X)	1.7
121005	Coal.....	1,000 s. tons.....	-	-	5.1	-
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	124.1	.5	147.4	.6
291141	Distillate.....	..do.....	28.4	1	58.2	.3
291151	Residual.....	..do.....	95.7	.3	89.2	.3
131300	Natural gas.....	Billion ft ³	2.0	1.3	.8	.6
960011	Other fuels.....		(X)	.5	(X)	.2
975000	Fuels, n.s.k.....		(X)	.4	(X)	.4
960012	Purchased electric energy.....	Million kWh.....	488.3	6.4	301.5	4.6
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.6	-	1.0	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

Commercial Printing and Manifold Business Forms

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EXPLANATORY TEXT

COMMERCIAL PRINTING AND MANIFOLD BUSINESS FORMS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2751—Commercial Printing, Letterpress and Screen*
2752—Commercial Printing, Lithographic
2753—Engraving and Plate Printing
2754—Commercial Printing, Gravure
2761—Manifold Business Forms

The general statistics (employment, payroll, cost of materials, value of receipts, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing receipts by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products by establishments classified in the specified industry and also the value of primary products of the industry as secondary products by establishments classified in other industries.

INDUSTRY 2751.—COMMERCIAL PRINTING, LETTERPRESS (Short Title)

This industry comprises establishments primarily engaged in letterpress and screen commercial or job printing, including flexographic. This industry includes general printing shops as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in screen printing.

Establishments primarily engaged in printing books, without publishing, are classified in industry 2732 (Book Printing) and greeting cards in industry 2771 (Greeting Card Publishing).

*Note that the "short title" for this industry is used throughout the report.

Establishments primarily engaged in printing from lithographic plates are classified in industry 2752, and gravure and rotogravure printing in industry 2754. For a detailed list of products of industry 2751, refer to table 6A, product codes 27511 15 to 27519 98.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. However, the SIC number and title are unchanged. Industry 2751 was split into two separate industries: Commercial Printing, Letterpress, (SIC 2751) and Commercial Printing, Gravure, (SIC 2754—old product classes 27517 and 27518). The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 13,342 establishments with 153.8 thousand total employment and \$2,444.9 million value added would have been classified in industry 2751, Commercial Printing, Letterpress, under the old SIC.

Receipts of the Commercial Printing, Letterpress, Industry in 1972 totaled \$3,288.6 million. This included receipts from commercial printing, letterpress, (primary receipts) valued at \$2,785.1 million, receipts from other products (secondary receipts) valued at \$421.4 million, and miscellaneous receipts (mainly resales) of \$82.1 million.

Receipts from commercial printing, letterpress, (primary receipts) in 1972 represented 87 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was 86 percent. Secondary receipts of this industry in 1972 consisted mainly of receipts from commercial printing, lithographic, (\$197.3 million).

Receipts from commercial printing, letterpress, (primary receipts) from establishments classified in industry 2751 in 1972 represented 82 percent (coverage ratio) of these receipts valued at \$3,404.8 million by all industries. In 1967, the coverage ratio was 83 percent. Other industries with receipts, from commercial printing, letterpress, consisted mainly of industry 2752, Commercial Printing, Lithographic, (\$282.7 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2751, these establishments accounted for 32 percent of value of receipts.

INDUSTRY 2752.—COMMERCIAL PRINTING, LITHOGRAPHIC

This industry comprises establishments primarily engaged in printing by the lithographic process. The greater part of the work in this industry is performed on a job or custom basis, but, in some cases, lithographed calendars, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry.

Establishments primarily engaged in lithographing books and pamphlets, without publishing, are classified in industry 2732 (Book Printing), and greeting cards in industry 2771 (Greeting Card Publishing). Establishments primarily engaged in preparing lithographic plates and in related services are classified in industry 2795 (Lithographic Platemaking Services). For a detailed list of products of industry 2752, refer to table 6A, product codes 27521 12 to 27526 99.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. However, the SIC number and title are unchanged. Industry 2752 was split into two separate industries: Commercial Printing, Lithographic, (SIC 2752) and Lithographic Platemaking and Related Services (SIC 2795—old product class 27527). The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 8,692 establishments with 186.8 thousand total employment and \$3,204.9 million value added would have been classified in industry 2752, Commercial Printing, Lithographic, under the old SIC.

Receipts of the Commercial Printing, Lithographic, Industry in 1972 totaled \$5,124.8 million. This included receipts from commercial printing, lithographic, (primary receipts) valued at \$4,334.7 million, receipts from other products (secondary receipts) valued at \$653.8 million, and miscellaneous receipts (mainly resales) of \$136.3 million.

Receipts from commercial printing, lithographic, (primary receipts) in 1972 represented 87 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was 82 percent. Secondary receipts of this industry in 1972 consisted mainly of receipts from commercial printing, letterpress, (\$282.7 million) and book printing (\$194.3 million).

Receipts from commercial printing, lithographic, (primary receipts) from establishments classified in industry 2752 in 1972 represented 88 percent (coverage ratio) of these receipts valued at \$4,919.6 million by all industries. In 1967, the coverage ratio was 80 percent. Other industries with receipts from commercial printing, lithographic, consisted mainly of industry 2751, Commercial Printing, Letterpress, (\$197.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2752, these establishments accounted for 13 percent of value of receipts.

INDUSTRY 2753.—ENGRAVING AND PLATE PRINTING

This industry comprises establishments primarily engaged in engraving and etching steel, copper, wood, or rubber plates; in using the plates to print stationery, visiting and other cards, invitations, maps, etc.; and in making woodcuts for use in printing illustrations, posters, etc. For a detailed list of products of industry 2753, refer to table 6A, product codes 27530 12 to 27530 75.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of services and other receipts of the Engraving and Plate Printing Industry in 1972 totaled \$201.6 million. This included receipts from engraving and plate printing (primary receipts) valued at \$178.2 million, receipts from other products (secondary receipts) valued at \$15.9 million, and miscellaneous receipts (mainly resales) of \$7.5 million.

Receipts from engraving and plate printing (primary receipts) in 1972 represented 92 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was 91 percent. Secondary receipts of this industry in 1972 consisted mainly of receipts from commercial printing, letterpress, (\$3.8 million) and commercial printing, lithographic, (\$3.1 million).

Receipts from engraving and plate printing (primary receipts) from establishments classified in industry 2753 in 1972 represented 87 percent (coverage ratio) of these receipts valued at \$205.0 million by all industries. In 1967, the coverage ratio was 81 percent. Other industries with receipts from engraving and plate printing consisted mainly of industry 2752, Commercial Printing, Lithographic, (\$7.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2753, these establishments accounted for 16 percent of value of receipts.

INDUSTRY 2754.—COMMERCIAL PRINTING, GRAVURE

This industry comprises establishments primarily engaged in gravure printing. This industry also includes establishments primarily engaged in preparing gravure plates and cylinders. Establishments primarily engaged in printing by the lithographic process are classified in industry 2752, and letterpress and screen printing, in industry 2751. For a detailed list of products of industry 2754, refer to table 6A, product codes 27541 11 to 27545 71.

The code number for this industry was changed in the 1972 revision of the SIC manual from the previous classification system. Industry 2754, Commercial Printing, Gravure, had been classified under product classes 27517 and 27518 as a part of industry 2751, Commercial Printing, Letterpress. The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 13,342 establishments with 153.8 thousand total employment and \$2,444.9 million value added would have been classified in industry 2751, Commercial Printing, Letterpress, under the old SIC.

Receipts of the Commercial Printing, Gravure, Industry in 1972 totaled \$697.6 million. This included receipts from commercial printing, gravure, (primary receipts) valued at \$598.3 million, receipts from other products (secondary receipts) valued at \$91.5 million, and miscellaneous receipts (mainly resales) of \$7.8 million.

Receipts from commercial printing, gravure, (primary receipts) in 1972 represented 87 percent (specialization ratio) of the industry's total receipts (primary and secondary). Secondary receipts of this industry in 1972 consisted mainly of receipts from commercial printing, letterpress, (\$35.6 million).

Receipts from commercial printing, gravure, (primary receipts) from establishments classified in industry 2754 in 1972 represented 79 percent (coverage ratio) of these receipts valued at \$759.1 million by all industries. Other industries with receipts from commercial printing, gravure, consisted mainly of industry 2751, Commercial Printing, Letterpress, (\$86.5 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. Normally, for these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics con-

structed from industry averages. As previously stated, industry 2754 was formerly a part of industry 2751 and, thus, the administrative records of the other Government agencies (for which no information was available for reclassification) still have these establishments classified in 2751. Consequently, for industry 2754, these data are not available.

INDUSTRY 2761.—MANIFOLD BUSINESS FORMS

This industry comprises establishments primarily engaged in designing and printing, by any process, special forms for use in the operation of a business, in single and multiple sets, including carbonized or interleaved with carbon or otherwise processed for multiple reproduction. For a detailed list of products of industry 2761, refer to table 6A, product codes 27612 13 to 27617 79.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Manifold Business Forms Industry in 1972 totaled \$1,429.7 million. This included shipments of manifold business forms (primary products) valued at \$1,267.9 million, shipments of other products (secondary products) valued at \$92.0 million, and miscellaneous receipts (mainly resales) of \$69.8 million.

Shipments of manifold business forms (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent. Secondary receipts of this industry in 1972 consisted mainly of receipts from commercial printing, lithographic, (\$34.3 million) and commercial printing, letterpress, (\$33.0 million).

Shipments of manifold business forms (primary products) from establishments classified in industry 2761 in 1972 represented 92 percent (coverage ratio) of these products valued at \$1,381.9 million shipped by all industries. In 1967, the coverage ratio was 90 percent. Other industries shipping manifold business forms consisted mainly of industry 2752, Commercial Printing, Lithographic, (\$76.0 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2761, these establishments accounted for 3 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2751.--COMMERCIAL PRINTING, LETTERPRESS															
1972 Census, new SIC..	13,196	1,169	130.1	1,131.0	103.8	191.1	813.2	2,001.6	1,300.2	3,288.6	128.9	(NA)	262.5	87	82
1972 Census, old SIC..	13,342	1,264	153.8	1,395.2	123.5	228.8	1,024.2	2,444.9	1,627.4	4,055.3	153.5	(NA)	320.2	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	171.2	1,415.8	135.7	260.1	1,040.4	2,370.3	1,517.7	3,884.7	154.3	1,831.8	318.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	176.6	1,384.8	142.0	288.3	1,033.3	2,245.5	1,468.1	3,729.0	149.6	1,769.6	310.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	172.2	1,313.9	141.4	271.5	988.4	2,132.7	1,417.5	3,573.1	157.6	1,803.3	304.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	168.5	1,230.3	138.2	266.3	925.2	2,024.6	1,349.8	3,375.1	133.8	1,654.3	293.9	(NA)	(NA)
1967 Census.....	12,098	1,439	175.1	1,186.0	142.3	273.2	880.1	1,947.9	1,322.9	3,255.5	142.9	1,603.0	275.6	86	83
1966 ASM.....	(NA)	(NA)	185.3	1,206.6	145.9	286.8	890.8	1,913.7	1,316.5	3,202.3	122.0	(NA)	283.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	181.6	1,132.5	141.8	276.7	832.7	1,761.1	1,204.4	2,951.6	108.1	(NA)	242.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	171.1	1,057.7	135.0	263.0	792.1	1,655.6	1,159.2	2,797.2	82.4	1,301.0	242.1	(NA)	(NA)
1963 Census.....	12,109	1,404	170.2	1,007.5	136.1	264.2	762.7	1,578.3	1,092.4	2,645.1	99.2	1,235.3	245.7	86	81
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,154.8	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
INDUSTRY 2752.--COMMERCIAL PRINTING, LITHOGRAPHIC															
1972 Census, new SIC..	8,388	2,135	184.0	1,835.3	139.6	264.2	1,266.2	3,155.1	1,992.7	5,124.8	220.6	(NA)	373.5	87	88
1972 Census, old SIC..	8,692	2,232	186.8	1,882.5	141.2	266.8	1,297.1	3,204.9	2,027.9	5,211.2	225.6	(NA)	378.9	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	165.1	1,543.5	124.8	240.0	1,055.1	2,605.1	1,656.8	4,248.7	160.2	1,729.8	334.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	171.2	1,501.2	131.1	255.0	1,026.7	2,519.3	1,629.5	4,135.7	165.2	1,649.2	306.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	160.2	1,361.6	123.6	245.7	945.6	2,391.4	1,496.4	3,869.3	142.3	1,423.2	275.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	151.9	1,217.6	116.7	230.2	839.0	2,112.6	1,358.1	3,454.3	131.4	1,301.6	241.7	(NA)	(NA)
1967 Census.....	6,822	1,648	146.5	1,113.2	112.2	233.3	766.5	1,897.7	1,242.4	3,139.4	125.6	1,178.7	209.9	82	80
1966 ASM.....	(NA)	(NA)	141.1	1,011.2	107.1	214.0	698.3	1,631.9	1,168.0	2,791.4	112.2	(NA)	208.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	132.4	920.9	100.3	202.2	635.5	1,479.0	1,063.7	2,536.5	98.6	(NA)	189.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	121.1	816.5	91.4	190.2	568.2	1,335.3	915.7	2,243.3	99.3	884.2	163.4	(NA)	(NA)
1963 Census.....	6,822	1,339	121.1	794.4	91.4	187.3	554.9	1,302.0	852.3	2,149.7	76.9	799.5	160.6	80	82
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	720.9	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
INDUSTRY 2753.--ENGRAVING AND PLATE PRINTING															
1972 Census.....	560	132	9.6	80.7	7.5	14.4	58.1	152.4	49.6	201.6	5.1	(NA)	12.3	92	87
1971 ASM.....	(NA)	(NA)	8.6	68.7	6.7	13.1	46.1	124.1	39.7	165.5	3.6	68.3	10.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	8.5	67.5	6.7	13.2	47.6	130.8	39.2	171.0	4.7	*68.1	12.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	10.1	81.3	8.9	18.3	58.9	153.8	64.1	216.6	4.8	*61.8	13.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	*9.3	*64.6	*8.0	*15.8	*45.7	*133.3	*47.5	*179.8	*3.4	*54.6	*11.8	(NA)	(NA)
1967 Census.....	577	129	9.0	58.7	7.3	14.6	42.7	98.8	39.7	137.9	3.8	*51.5	10.0	91	81
1966 ASM.....	(NA)	(NA)	11.1	73.3	9.3	19.2	58.0	129.2	50.4	175.9	4.6	(NA)	12.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.0	75.7	10.0	20.6	59.0	134.2	40.5	170.8	5.6	(NA)	13.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.5	54.6	7.5	14.9	40.5	88.5	35.0	122.9	*1.0	*36.9	10.3	(NA)	(NA)
1963 Census.....	580	105	9.0	50.7	7.1	13.8	38.2	80.7	31.1	111.1	3.8	*35.7	10.2	89	84
1962 ASM.....	(NA)	(NA)	8.9	47.6	6.9	13.7	36.8	63.3	24.7	88.1	*1.6	*30.8	8.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	9.5	48.7	7.5	14.2	37.4	68.6	26.1	93.4	*1.4	(NA)	8.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	9.3	47.1	7.3	13.9	37.1	66.0	24.4	90.3	(S)	(NA)	7.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	9.1	46.3	7.2	14.4	36.6	62.3	25.0	87.3	(S)	(NA)	8.1	(NA)	(NA)
1958 Census.....	528	102	9.0	43.1	7.2	13.6	33.3	64.5	23.2	87.2	3.6	(NA)	8.5	92	82
INDUSTRY 2754.--COMMERCIAL PRINTING, GRAVURE															
1972 Census.....	135	88	20.0	225.4	17.0	32.8	182.3	372.2	326.2	697.6	22.5	(NA)	51.7	87	79
INDUSTRY 2761.--MANIFOLD BUSINESS FORMS															
1972 Census.....	667	376	38.6	343.6	28.8	58.6	235.2	823.6	612.3	1,429.7	45.8	(NA)	143.8	93	92
1971 ASM.....	(NA)	(NA)	37.4	320.6	27.6	58.2	215.6	727.7	550.3	1,277.7	50.6	534.6	133.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	39.7	317.1	29.7	60.7	215.4	721.9	543.3	1,264.8	54.7	*99.0	131.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	37.1	287.7	28.1	57.7	190.5	667.1	487.9	1,152.2	48.6	423.1	120.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	35.4	263.2	26.1	54.6	173.1	607.6	431.2	1,031.4	45.2	383.2	112.1	(NA)	(NA)
1967 Census.....	542	295	34.4	240.2	25.3	51.4	158.9	550.5	384.6	932.3	39.8	340.4	98.4	91	90
1966 ASM.....	(NA)	(NA)	31.6	208.3	23.1	48.5	140.3	486.3	345.6	823.9	44.4	(NA)	90.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	30.3	192.3	22.3	46.6	128.6	436.5	309.5	739.7	29.5	(NA)	80.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	28.8	177.8	21.5	44.8	120.7	401.3	281.3	679.6	22.2	233.8	69.2	(NA)	(NA)

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 2761.--MANIFOLD BUSINESS FORMS--Continued														
1963 Census.....	502	250	28.8	173.2	21.3	43.3	116.7	377.7	259.3	637.7	23.1	209.4	64.4	90	91
1962 ASM.....	(NA)	(NA)	27.3	146.5	19.1	38.6	98.7	329.7	221.8	552.5	*22.3	190.6	59.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	26.3	136.5	18.5	36.3	91.4	299.0	199.3	497.8	*15.9	(NA)	54.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	25.0	131.6	17.9	35.5	86.5	288.6	186.3	473.8	*18.3	(NA)	51.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	24.7	128.1	18.0	35.5	84.9	273.3	178.2	450.8	*13.5	(NA)	45.8	(NA)	(NA)
1958 Census.....	(NA)	165	23.6	120.9	16.9	32.8	79.6	245.2	160.0	405.7	14.8	(NA)	43.3	91	90

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2751	Industry 2752	Industry 2753	Industry 2754	Industry 2761
1972.....	13,038	8,159	542	120	533
1967.....	11,955	6,718	569	(NA)	454
1963.....	11,979	6,738	574	(NA)	439

(NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of receipts	Cost of materials and payrolls per dollar of receipts	Assets per dollar of receipts	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 2751.--COMMERCIAL PRINTING, LETTERPRESS											
1972 Census, new SIC...	8,693	(NA)	80	1,841	4.26	.40	.74	(NA)	15,385	57	10.47
1972 Census, old SIC...	9,072	(NA)	80	1,853	4.48	.40	.75	(NA)	15,897	57	10.69
1971 ASM.....	8,270	1,070	79	1,917	4.00	.39	.76	.47	13,845	60	9.11
1970 ASM.....	7,841	1,002	80	2,030	3.58	.39	.77	.47	12,715	62	7.79
1969 ASM.....	7,630	1,047	82	1,920	3.64	.40	.76	.50	12,385	62	7.86
1968 ASM.....	7,301	982	82	1,927	3.47	.40	.76	.49	12,015	61	7.60
1967 Census.....	6,773	915	81	1,920	3.22	.41	.77	.49	11,123	61	7.13
1966 ASM.....	6,513	(NA)	79	1,966	3.11	.41	.79	(NA)	10,330	63	6.67
1965 ASM.....	6,235	(NA)	78	1,951	3.01	.41	.79	(NA)	9,695	64	6.36
1964 ASM.....	6,184	760	79	1,948	3.01	.41	.79	.47	9,679	64	6.30
1963 Census.....	5,919	726	80	1,941	2.89	.41	.79	.47	9,272	64	5.97
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
INDUSTRY 2752.--COMMERCIAL PRINTING, LITHOGRAPHIC											
1972 Census, new SIC...	9,974	(NA)	76	1,893	4.79	.39	.75	(NA)	17,147	58	11.94
1972 Census, old SIC...	10,078	(NA)	76	1,890	4.86	.39	.75	(NA)	17,157	59	12.01
1971 ASM.....	9,349	1,048	76	1,923	4.40	.39	.75	.41	15,779	59	10.85
1970 ASM.....	8,769	963	77	1,945	4.03	.39	.76	.40	14,716	60	9.88
1969 ASM.....	8,499	888	77	1,988	3.85	.39	.74	.37	14,928	57	9.73
1968 ASM.....	8,016	857	77	1,973	3.65	.39	.75	.38	13,908	58	9.18
1967 Census.....	7,598	805	77	1,990	3.43	.40	.75	.38	12,953	59	8.50
1966 ASM.....	7,169	(NA)	76	1,998	3.26	.42	.78	(NA)	11,569	62	7.63
1965 ASM.....	6,955	(NA)	76	2,016	3.14	.42	.78	(NA)	11,171	62	7.31
1964 ASM.....	6,744	730	75	2,082	2.99	.41	.77	.39	11,030	61	7.02
1963 Census.....	6,561	660	75	2,050	2.96	.40	.77	.37	10,754	61	6.95
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of receipts (dollars)	Cost of materials and payrolls per dollar of receipts (dollars)	Assets per dollar of receipts (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2753.--ENGRAVING AND PLATE PRINTING											
1972 Census.....	8,406	(NA)	78	1,920	4.03	.25	.65	(NA)	15,875	53	10.58
1971 ASM.....	7,988	7,940	78	1,955	3.52	.24	.65	.41	14,430	55	9.47
1970 ASM.....	7,941	8,010	79	1,970	3.61	.23	.62	.40	15,388	52	9.91
1969 ASM.....	8,050	6,120	88	2,056	3.22	.30	.67	.29	15,228	53	8.40
1968 ASM.....	6,946	5,870	86	1,975	2.90	.26	.62	.30	14,333	49	8.44
1967 Census.....	6,489	5,720	81	1,983	2.94	.29	.71	.37	10,925	59	6.79
1966 ASM.....	6,594	(NA)	83	2,064	3.03	.29	.70	(NA)	11,623	57	6.75
1965 ASM.....	6,302	(NA)	83	2,059	2.87	.24	.68	(NA)	11,168	56	6.52
1964 ASM.....	5,760	3,880	79	1,987	2.72	.28	.73	.30	9,335	62	5.93
1963 Census.....	5,620	3,970	79	1,938	2.76	.28	.74	.32	8,950	63	5.85
1962 ASM.....	5,375	3,460	78	1,984	2.68	.28	.82	.35	7,146	75	4.61
1961 ASM.....	5,153	(NA)	79	1,902	2.62	.28	.80	(NA)	7,250	71	4.81
1960 ASM.....	5,077	(NA)	79	1,893	2.67	.27	.79	(NA)	7,117	71	4.75
1959 ASM.....	5,097	(NA)	79	2,008	2.54	.29	.82	(NA)	6,859	74	4.33
1958 Census.....	4,766	(NA)	80	1,875	2.46	.27	.76	(NA)	7,126	67	4.76
INDUSTRY 2754.--COMMERCIAL PRINTING, GRAVURE											
1972 Census.....	11,270	(NA)	85	1,929	5.56	.47	.79	(NA)	18,610	61	11.35
INDUSTRY 2761.--MANIFOLD BUSINESS FORMS											
1972 Census.....	8,902	(NA)	75	2,035	4.01	.43	.67	(NA)	21,334	42	14.05
1971 ASM.....	8,572	14,290	74	2,109	3.70	.43	.68	.42	19,457	44	12.50
1970 ASM.....	7,987	12,570	75	2,044	3.55	.43	.68	.39	18,184	44	11.89
1969 ASM.....	7,755	11,400	76	2,053	3.30	.42	.67	.37	17,981	43	11.56
1968 ASM.....	7,435	10,820	74	2,092	3.17	.42	.67	.37	17,164	43	11.13
1967 Census.....	6,975	9,900	73	2,033	3.09	.41	.67	.37	15,985	44	10.72
1966 ASM.....	6,584	(NA)	73	2,098	2.89	.42	.67	(NA)	15,374	43	10.02
1965 ASM.....	6,351	(NA)	74	2,087	2.76	.42	.68	(NA)	14,411	44	9.37
1964 ASM.....	6,170	8,120	75	2,084	2.70	.41	.68	.34	13,922	44	8.96
1963 Census.....	6,016	7,270	74	2,037	2.69	.41	.68	.33	13,117	46	8.72
1962 ASM.....	5,373	6,980	70	2,018	2.56	.40	.67	.34	12,093	44	8.55
1961 ASM.....	5,198	(NA)	70	1,966	2.52	.40	.67	(NA)	11,388	46	8.23
1960 ASM.....	5,263	(NA)	72	1,976	2.44	.39	.67	(NA)	11,546	46	8.14
1959 ASM.....	5,176	(NA)	73	1,980	2.39	.40	.68	(NA)	11,043	47	7.69
1958 Census.....	5,121	(NA)	71	1,944	2.43	.39	.69	(NA)	10,383	49	7.47

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of receipts	Establishments		All employees	Value added by manufacture	Value of receipts
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 2751.--Commercial Printing, Letterpress.....	13,196	1,169	130.1	2,001.6	3,288.6	(X)	(X)	(X)	(X)	(X)
Old industry 2751.--Commercial Printing, Except Lithographic.....	13,196	1,169	130.1	2,001.6	3,280.6	13,342	1,264	153.8	2,444.9	4,055.3
New industry 2752.--Commercial Printing, Lithographic.....	8,388	2,135	184.0	3,155.1	5,124.8	(X)	(X)	(X)	(X)	(X)
Old industry 2752.--Commercial Printing, Lithographic.....	8,388	2,135	184.0	3,155.1	5,124.8	8,692	2,232	186.8	3,204.9	5,211.2
New industry 2754.--Commercial Printing, Gravure.....	135	88	20.0	372.2	697.6	(X)	(X)	(X)	(X)	(X)
Old industry 2751.--Commercial Printing, Except Lithographic.....	135	88	20.0	372.2	697.6	13,342	1,264	153.8	2,444.9	4,055.3

(X) Not applicable.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of receipts	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2751-- COMMERCIAL PRINTING, LETTERPRESS													
UNITED STATES, E3	13 196	1 169	130.1	1 131.0	103.8	191.1	813.2	2 001.6	1 300.2	3 288.6	128.9	175.1	1 947.9
NORTHEAST REGION, E3	3 915	394	40.2	350.9	31.9	59.0	248.9	627.8	384.1	1 007.5	38.0	62.5	676.3
NEW ENGLAND DIVISION, E4	875	91	8.1	67.0	6.5	12.3	47.2	124.5	76.3	200.2	12.6	12.3	127.9
MAINE, E3	60	5	.5	3.3	.3	.6	2.0	7.4	6.3	13.7	.7	.4	4.4
NEW HAMPSHIRE, E3	53	3	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	9.4
VERMONT, E5	48	1	.2	1.2	.1	.3	.9	2.3	1.4	3.6	.2	.4	4.1
MASSACHUSETTS, E5	448	53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	5.1	54.7
RHODE ISLAND, E4	79	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.7
CONNECTICUT, E2	187	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	43.5
MIDDLE ATLANTIC DIVISION, E3	3 040	303	31.9	283.8	25.4	46.7	201.7	503.3	307.8	807.3	25.5	50.2	548.4
NEW YORK, E4	1 768	169	17.9	167.5	14.1	25.9	118.2	295.8	171.4	463.9	14.0	26.0	310.4
NEW JERSEY, E2	542	64	5.9	53.0	4.9	8.6	38.3	92.7	64.6	157.4	5.5	8.5	96.8
PENNSYLVANIA, E2	730	70	8.1	63.3	6.5	12.2	45.2	114.8	71.7	186.0	6.0	15.7	141.3
NORTH CENTRAL REGION, E2	3 567	362	45.5	420.9	36.4	68.0	309.8	725.3	477.7	1 197.0	45.4	61.9	719.1
EAST NORTH CENTRAL DIVISION, E2	2 594	272	37.3	357.8	30.0	56.5	266.9	611.1	400.7	1 006.5	37.7	52.3	624.3
OHIO, E1	634	66	9.7	94.2	8.0	15.1	74.1	148.6	117.7	264.2	8.0	13.7	151.0
INDIANA, E2	294	26	2.8	20.7	2.3	4.3	16.3	34.0	19.8	53.7	2.1	4.1	48.6
ILLINOIS, E1	901	116	17.7	181.7	14.0	27.1	134.2	318.6	171.9	488.4	18.0	25.9	331.4
MICHIGAN, E3	486	38	3.8	32.6	3.0	5.2	22.7	64.5	37.9	102.1	3.2	4.4	50.8
WISCONSIN, E1	279	26	3.4	28.5	2.6	4.9	19.7	45.4	53.5	98.1	6.4	4.2	42.5
WEST NORTH CENTRAL DIVISION, E3	973	90	8.3	63.2	6.4	11.5	42.9	114.3	77.0	190.5	7.7	9.6	94.8
MINNESOTA, E3	228	26	2.2	17.5	1.8	3.2	12.0	33.6	23.4	56.6	2.5	2.1	21.7
IOWA, E3	162	11	1.2	9.4	1.0	1.9	6.3	17.7	11.4	29.0	.8	EE	(D)
MISSOURI, E4	326	28	2.5	19.9	2.0	3.6	14.3	32.9	21.3	54.0	2.5	3.5	34.9
SOUTH DAKOTA, E1	28	2	.2	1.6	.1	.2	.9	3.0	1.8	4.7	.2	BB	(D)
NEBRASKA, E2	77	7	.7	5.2	.6	.9	3.7	9.8	6.3	16.0	.4	EE	(D)
KANSAS, E2	133	14	1.2	8.5	.9	1.5	5.4	15.4	11.5	27.0	1.3	CC	(D)
SOUTH REGION, E3	3 390	254	26.0	200.7	21.0	38.5	143.6	367.6	249.8	615.9	26.6	33.2	350.0
SOUTH ATLANTIC DIVISION, E3	1 765	143	14.7	112.5	11.8	21.2	79.9	204.0	133.0	335.7	14.7	17.3	185.3
MARYLAND, E3	203	23	2.7	21.6	2.2	3.8	15.4	35.6	15.9	51.3	2.5	2.8	32.4
DISTRICT OF COLUMBIA, E2	73	6	.8	7.4	.7	1.2	5.6	12.3	7.6	20.0	1.0	2.2	29.3
VIRGINIA, E4	226	20	2.0	13.9	1.6	2.6	10.1	23.9	15.1	38.8	1.2	3.0	32.0
WEST VIRGINIA, E4	63	3	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.5
NORTH CAROLINA, E3	248	26	2.0	15.5	1.6	3.0	10.3	28.4	20.3	48.4	2.6	2.6	29.0
SOUTH CAROLINA, E3	107	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.5
GEORGIA, E2	258	23	2.6	20.6	2.1	3.9	14.8	40.3	36.7	76.5	2.4	2.4	25.2
FLORIDA, E5	565	35	3.6	25.4	2.9	5.1	18.1	48.2	28.3	76.4	3.4	2.9	26.0
EAST SOUTH CENTRAL DIVISION, E3	556	42	4.5	36.0	3.7	7.1	26.5	63.8	45.2	108.7	4.3	8.3	85.6
KENTUCKY, E3	112	11	1.0	6.8	.7	1.4	4.7	11.3	7.1	18.4	.6	4.0	41.4
TENNESSEE, E2	224	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	27.5
ALABAMA, E3	134	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	12.1
MISSISSIPPI, E7	86	4	.4	2.7	.3	.6	2.0	5.4	4.2	9.5	.8	.5	4.7
WEST SOUTH CENTRAL DIVISION, E4	1 069	69	6.8	52.3	5.5	10.1	37.2	99.8	71.5	171.5	7.7	7.7	79.0
ARKANSAS, E3	72	6	.7	5.1	.5	.9	3.5	9.9	4.6	14.5	.6	.8	8.0
LOUISIANA, E5	157	14	1.3	9.5	1.0	2.0	6.6	17.5	10.5	28.9	1.2	1.0	10.6
OKLAHOMA, E4	149	7	.8	5.4	.7	1.2	3.8	10.8	7.4	18.1	.7	.7	9.4
TEXAS, E4	691	42	4.1	32.3	3.3	6.0	23.3	61.6	49.0	110.0	5.2	5.1	51.0
WEST REGION, E3	2 324	159	18.4	158.5	14.5	25.5	110.9	280.9	188.7	468.2	18.9	17.5	202.6
MOUNTAIN DIVISION, E4	453	30	3.8	30.8	3.0	5.3	21.4	37.2	31.4	68.3	3.8	2.7	25.2
MONTANA, E1	19	3	.2	1.4	.1	.3	1.1	2.8	1.1	3.9	.2	.2	1.6
COLORADO, E4	166	12	1.2	10.4	1.0	1.7	7.2	17.1	9.9	26.8	2.2	EE	(D)
NEW MEXICO, E5	56	2	.2	1.2	.2	.3	.9	2.9	1.9	4.8	.2	.2	1.6
ARIZONA, E4	92	5	.6	4.6	.5	.9	3.5	8.4	4.9	13.3	.6	CC	(D)
UTAH, E3	54	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.6
NEVADA, E2	27	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION, E3	1 871	129	14.6	127.7	11.5	20.3	89.5	243.8	157.3	399.8	15.0	14.8	177.3
WASHINGTON, E4	170	9	.9	6.5	.7	1.2	4.8	13.0	8.8	21.4	.8	EE	(D)
OREGON, E5	122	5	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA, E3	1 524	114	13.0	115.5	10.2	18.1	82.8	219.6	141.0	359.7	13.6	12.7	155.0
HAWAII, E4	39	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.1
2752-- COMMERCIAL PRINTING, LITHOGRAPHIC													
UNITED STATES, E1	8 388	2 135	184.0	1 835.3	139.6	264.2	1 266.2	3 155.1	1 992.7	5 124.8	220.6	146.8	1 897.7
NORTHEAST REGION, E1	2 484	647	57.6	593.3	43.8	81.9	408.2	1 002.6	601.7	1 596.3	66.6	47.4	628.7
NEW ENGLAND DIVISION, E1	553	162	13.9	129.6	10.7	20.9	89.9	212.8	116.4	326.7	13.1	10.9	124.4
MAINE, E2	20	6	.3	2.1	.2	.5	1.5	3.7	1.8	5.4	.7	(NA)	(NA)
NEW HAMPSHIRE, E1	29	7	1.3	10.4	1.1	2.2	8.2	15.2	9.5	24.8	.8	(NA)	(NA)
VERMONT, E1	21	7	.6	5.0	.4	.7	2.8	9.0	4.5	13.5	.8	(NA)	(NA)
MASSACHUSETTS, E1	276	78	7.0	64.2	5.2	10.0	44.2	101.6	54.4	154.4	6.1	6.9	75.5
RHODE ISLAND, E1	40	9	.5	6.2	.5	.9	4.0	12.3	7.2	19.2	1.6	.4	4.3
CONNECTICUT, E2	167	55	4.2	41.7	3.3	6.6	29.3	71.0	39.0	109.4	3.1	3.2	40.9
MIDDLE ATLANTIC DIVISION, E1	1 931	485	43.7	463.7	33.1	61.0	318.3	789.8	485.5	1 269.6	53.6	36.4	504.2
NEW YORK, E1	1 176	264	23.9	272.9	17.9	33.1	185.5	476.9	288.1	762.6	24.5	22.9	331.8
NEW JERSEY, E1	311	76	5.7	60.2	4.4	8.2	40.7	105.3	69.5	174.6	6.2	4.7	63.3
PENNSYLVANIA, E1	444	145	14.0	130.6	10.9	19.9	92.1	207.6	127.8	332.4	22.8	8.9	109.2
NORTH CENTRAL REGION, E2	2 514	733	68.4	701.1	52.1	100.0	489.0	1 221.4	798.0	2 010.9	93.2	60.5	763.6
EAST NORTH CENTRAL DIVISION, E2	1 855	530	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	43.9	568.6
OHIO, E1	477	140	13.5	125.4	9.9	19.1	83.3	226.3	115.7	340.1	11.4	11.0	146.7
INDIANA, E2	185	52	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	32.1
ILLINOIS, E1	663	204	21.3	236.8	16.7	32.1	171.5	410.8	285.4	695.0	36.4	17.9	236.5
MICHIGAN, E1	316	67	6.8	74.2	5.0	9.5	49.1	123.9	97.8	221.2	7.8	6.9	85.2
WISCONSIN, E1	214	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	68.1

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of receipts	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2752-- COMMERCIAL PRINTING, LITHO-GRAPHIC--CONTINUED													
NORTH CENTRAL REGION--CON.													
WEST NORTH CENTRAL DIVISION.. E1	659	203	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.6	195.0
MINNESOTA..... E1	181	67	6.2	67.7	4.8	9.2	48.4	117.0	81.4	195.7	10.7	8.8	98.3
IOWA..... E1	102	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.2
MISSOURI..... E1	208	57	5.1	50.2	3.9	7.2	34.7	92.1	58.8	150.1	8.3	4.4	60.4
NORTH DAKOTA..... E2	17	8	.4	1.8	.3	.5	1.3	2.7	1.6	4.3	.3	(NA)	(NA)
SOUTH DAKOTA..... E1	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA..... E1	56	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.7
KANSAS..... E1	79	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	13.1
SOUTH REGION..... E1	1 861	472	36.0	319.0	27.2	52.4	216.4	538.2	341.7	875.4	37.3	23.1	288.9
SOUTH ATLANTIC DIVISION..... E1													
DELAWARE..... E1	980	255	19.7	181.4	14.8	28.5	123.8	303.5	181.2	482.1	17.1	12.3	168.5
MARYLAND..... E1	20	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
DISTRICT OF COLUMBIA..... E1	124	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	28.4
VIRGINIA..... E1	55	19	1.4	15.7	1.0	1.8	10.5	24.9	18.1	42.7	2.0	1.2	15.0
WEST VIRGINIA..... E1	121	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CAROLINA..... E2	23	10	.5	4.3	.4	.8	3.2	8.3	5.9	14.3	.3	CC	(D)
SOUTH CAROLINA..... E2	138	24	1.6	13.2	1.3	2.5	8.9	25.1	15.8	40.6	1.7	1.1	11.4
GEORGIA..... E2	48	17	1.1	8.0	.7	1.3	4.4	11.4	5.7	17.1	.8	BB	(D)
FLORIDA..... E2	149	45	3.9	39.8	3.0	5.9	28.4	63.2	36.1	99.3	2.5	2.8	34.2
	302	57	4.3	37.4	3.3	6.6	25.9	66.3	35.6	101.6	4.3	2.0	26.0
EAST SOUTH CENTRAL DIVISION..... E1													
KENTUCKY..... E1	262	74	5.9	50.1	4.4	8.8	33.5	86.3	53.7	138.6	8.3	4.7	53.7
TENNESSEE..... E1	66	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.9
ALABAMA..... E1	117	32	2.4	20.4	1.8	3.6	14.0	33.5	23.8	56.2	2.0	FF	(D)
MISSISSIPPI..... E1	54	11	.9	7.6	.7	1.3	5.8	14.3	6.9	21.2	.6	CC	(D)
	25	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION..... E1													
ARKANSAS..... E1	619	143	10.4	87.5	7.9	15.1	59.1	148.4	106.7	254.7	11.9	6.1	66.7
LOUISIANA..... E1	45	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.3
OKLAHOMA..... E1	87	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.7
TEXAS..... E1	84	13	1.0	8.9	.8	1.7	6.7	16.9	12.3	29.0	2.0	.8	9.5
	403	101	7.6	63.8	5.8	10.8	42.8	106.5	74.4	180.6	7.0	4.2	46.2
WEST REGION..... E1													
MOUNTAIN DIVISION..... E2													
IDAHO..... E1	288	50	3.6	31.8	2.7	5.1	22.2	55.1	33.8	88.5	4.4	2.3	29.2
COLORADO..... E1	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW MEXICO..... E2	100	16	1.2	10.4	.8	1.6	6.9	19.7	10.6	30.1	1.9	1.1	14.7
ARIZONA..... E3	23	5	.2	1.9	.2	.3	1.1	3.2	2.0	5.2	.3	(NA)	(NA)
UTAH..... E2	73	11	1.2	11.3	.9	1.8	8.2	19.1	12.8	31.8	1.2	BB	(D)
	35	7	.4	3.2	.3	.6	2.4	5.9	3.2	9.1	.4	BB	(D)
PACIFIC DIVISION..... E1													
WASHINGTON..... E1	1 241	233	18.4	190.0	13.8	24.8	130.4	337.9	217.6	553.5	21.0	13.3	187.4
OREGON..... E1	118	19	1.6	15.7	1.1	2.0	10.5	26.9	14.0	40.4	.6	1.3	15.9
CALIFORNIA..... E1	86	15	1.1	9.7	.8	1.3	6.4	18.2	14.8	32.9	1.0	1.0	12.8
HAWAII..... E1	1 002	190	15.1	158.6	11.5	20.7	109.6	281.9	182.3	462.8	18.3	10.7	153.5
	26	8	.5	5.3	.3	.6	3.3	9.4	5.8	15.2	1.1	.3	5.0
2753-- ENGRAVING AND PLATE PRINTING													
UNITED STATES..... E1	560	132	9.6	80.7	7.5	14.4	58.1	152.4	49.6	201.6	5.1	9.0	98.8
NORTHEAST REGION..... E1													
NEW ENGLAND DIVISION..... E1	209	47	4.0	37.1	3.2	6.0	27.9	71.1	22.0	92.1	2.2	4.1	45.1
MASSACHUSETTS..... E1	37	10	1.1	8.5	.8	1.5	5.9	16.5	6.6	22.0	(D)	1.1	10.8
CONNECTICUT..... E1	21	7	.7	5.7	.5	1.0	3.8	11.7	5.1	15.7	(D)	.8	7.7
	10	2	.2	1.8	.2	.3	1.2	2.9	.9	3.8	.1	.2	2.2
MIDDLE ATLANTIC DIVISION..... E1													
NEW YORK..... E1	172	37	3.0	28.6	2.3	4.5	22.1	54.5	15.4	70.1	(D)	2.9	34.3
NEW JERSEY..... E1	97	16	1.9	19.4	1.5	2.8	15.5	38.1	8.2	46.5	1.1	1.9	23.7
PENNSYLVANIA..... E1	42	11	.6	4.9	.5	.9	3.6	8.5	2.7	11.2	(D)	.4	4.7
	33	10	.5	4.3	.4	.7	3.0	8.0	4.4	12.4	.5	.6	5.9
NORTH CENTRAL REGION..... E1													
EAST NORTH CENTRAL DIVISION..... E2	145	33	2.0	17.1	1.6	2.9	11.8	32.1	10.5	42.4	(D)	2.0	21.5
OHIO..... E2	115	25	1.5	13.5	1.2	2.2	9.3	23.5	7.4	30.8	.7	1.4	15.5
INDIANA..... E1	26	8	.4	2.9	.3	.6	2.2	5.2	1.9	7.1	.2	.3	2.9
ILLINOIS..... E2	9	4	.2	1.1	.1	.3	.7	2.5	.8	3.3	-	(NA)	(NA)
	52	10	.7	7.5	.5	1.0	5.0	12.0	3.3	15.3	.3	.8	9.2
WEST NORTH CENTRAL DIVISION..... E1													
MINNESOTA..... E1	30	8	.5	3.6	.4	.7	2.5	8.6	3.2	11.6	(D)	.5	6.0
MISSOURI..... E1	12	4	.3	1.9	.2	.4	1.2	5.2	2.1	7.1	.2	.2	2.9
	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.5
SOUTH REGION..... E1													
SOUTH ATLANTIC DIVISION..... E1	123	36	2.3	16.6	1.9	3.7	11.6	29.6	11.0	41.5	1.1	2.0	20.7
SOUTH CAROLINA..... E1	63	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	8.6
FLORIDA..... E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	20	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.6
EAST SOUTH CENTRAL DIVISION..... E1													
KENTUCKY..... E2	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	7.9
TENNESSEE..... E1	10	5	.3	2.1	.2	.4	1.7	3.6	1.2	4.7	.1	.3	2.6
ALABAMA..... E1	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION..... E1													
TEXAS..... E1	39	10	.6	4.3	.4	.9	2.8	6.7	2.7	10.3	.4	.5	4.2
	29	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.7
WEST REGION..... E2													
MOUNTAIN DIVISION..... E1	83	16	1.2	9.8	.9	1.8	6.6	19.6	6.1	25.6	(D)	1.0	11.5
COLORADO..... E1	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION..... E2													
CALIFORNIA..... E2	74	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	10.3
	61	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.3

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of receipts	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2754-- COMMERCIAL PRINTING, GRAVURE													
UNITED STATES.	135	88	20.0	225.4	17.0	32.8	182.3	372.2	326.2	697.6	22.5	(NA)	(NA)
NORTHEAST REGION	58	34	5.2	66.0	4.3	8.5	54.2	95.4	82.9	178.5	10.0	(NA)	(NA)
NEW ENGLAND DIVISION	13	9	.8	9.8	.7	1.3	8.0	15.8	14.8	30.6	(D)	(NA)	(NA)
MASSACHUSETTS.	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
RHODE ISLAND.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	45	25	4.4	56.2	3.7	7.1	46.2	79.6	68.1	147.9	(D)	(NA)	(NA)
NEW YORK	22	9	.7	9.9	.5	.9	7.0	14.6	9.0	23.6	.5	(NA)	(NA)
NEW JERSEY	10	8	1.0	15.9	.8	1.8	12.8	22.1	11.2	33.5	(D)	(NA)	(NA)
PENNSYLVANIA	13	8	2.7	30.4	2.4	4.5	26.5	42.9	48.0	90.8	8.0	(NA)	(NA)
NORTH CENTRAL REGION	45	29	9.0	102.5	7.5	14.7	80.7	167.0	155.1	322.2	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	38	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	13	9	1.4	17.0	1.2	2.3	11.8	21.9	37.6	59.7	.6	(NA)	(NA)
INDIANA	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	13	10	4.2	47.8	3.7	7.1	41.2	71.2	57.4	129.8	1.8	(NA)	(NA)
MICHIGAN	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	20	18	4.8	46.3	4.2	7.8	38.4	89.3	78.0	166.2	3.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	10	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY	3	3	2.3	23.2	2.1	3.4	19.7	36.3	15.2	51.3	.7	(NA)	(NA)
TENNESSEE.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	4	3	.2	1.6	.2	.4	1.1	4.4	2.4	6.6	.1	(NA)	(NA)
WEST REGION.	12	7	1.0	10.6	.9	1.7	9.1	20.4	10.3	30.7	(D)	(NA)	(NA)
PACIFIC DIVISION	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2761-- MANIFOLD BUSINESS FORMS													
UNITED STATES.	667	376	38.6	343.6	28.8	58.6	235.2	823.6	612.3	1 429.7	45.8	34.4	550.5
NORTHEAST REGION	182	100	9.3	85.6	7.0	14.1	59.1	200.8	158.7	358.6	10.3	8.4	134.5
NEW ENGLAND DIVISION	36	24	2.7	25.3	2.0	4.1	16.8	58.3	40.3	98.2	3.9	2.1	30.8
NEW HAMPSHIRE.	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
VERMONT.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS.	11	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	7.7
RHODE ISLAND.	4	3	.2	1.7	.1	.3	1.0	3.4	2.2	5.6	-	(NA)	(NA)
CONNECTICUT.	12	7	.8	8.2	.6	1.2	5.9	20.1	15.9	36.1	1.4	.6	12.1
MIDDLE ATLANTIC DIVISION	146	76	6.6	60.4	4.9	10.0	42.3	142.5	118.4	260.5	6.4	6.3	103.8
NEW YORK	77	34	2.5	24.0	1.7	3.5	15.8	47.4	34.4	81.6	2.0	3.0	46.6
NEW JERSEY	27	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.6
PENNSYLVANIA	42	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	47.5
NORTH CENTRAL REGION	185	111	12.5	116.6	9.3	18.9	78.7	267.0	195.6	461.4	12.8	13.6	205.8
EAST NORTH CENTRAL DIVISION.	131	76	9.2	88.4	6.9	13.9	61.3	212.9	154.9	367.7	8.9	10.9	174.4
OHIO	31	19	3.2	30.0	2.5	5.0	22.2	78.7	44.3	122.9	2.9	4.9	79.9
INDIANA	11	4	.7	6.0	.4	.9	3.7	16.5	9.3	26.2	.4	.8	15.4
ILLINOIS	48	30	3.4	33.5	2.6	5.3	24.0	73.9	57.7	131.2	3.4	3.8	60.1
MICHIGAN	28	12	1.0	10.3	.6	1.2	5.8	19.2	20.4	39.3	.9	.9	10.0
WISCONSIN.	13	11	1.0	8.6	.7	1.5	5.5	24.6	23.2	48.1	1.2	.5	9.0
WEST NORTH CENTRAL DIVISION.	54	35	3.3	28.2	2.4	5.0	17.5	54.1	40.7	93.7	4.0	2.7	31.4
MINNESOTA.	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.9
IOWA	10	8	.6	4.9	.5	1.0	3.4	13.6	10.2	23.7	.9	.4	7.9
MISSOURI	17	9	.9	7.5	.6	1.3	4.9	14.1	9.5	22.7	(D)	.8	8.5
NEBRASKA	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KANSAS	12	9	1.0	7.5	.7	1.6	5.1	14.2	9.8	23.7	(D)	CC	(D)
SOUTH REGION	180	101	11.1	88.6	8.4	17.5	60.6	216.8	165.0	378.4	15.3	7.6	116.4
SOUTH ATLANTIC DIVISION.	90	51	4.9	39.3	3.7	7.7	27.1	98.2	78.8	175.6	7.2	3.6	55.5
MARYLAND	12	7	1.3	11.6	.9	1.9	7.0	27.1	23.3	50.0	3.8	EE	(D)
VIRGINIA	12	8	.8	5.9	.6	1.3	4.5	14.7	13.5	28.0	.8	.6	6.7
WEST VIRGINIA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA	19	11	.8	5.2	.6	1.2	4.1	10.3	8.5	18.8	.7	.7	7.4
SOUTH CAROLINA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA	14	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.0
FLORIDA.	23	13	.8	6.9	.6	1.2	4.5	13.1	10.7	23.1	.7	.4	5.1
EAST SOUTH CENTRAL DIVISION.	25	12	1.3	9.2	1.0	2.1	6.5	22.6	22.7	45.3	1.6	.8	11.4
KENTUCKY	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE.	15	4	.4	2.8	.3	.6	1.9	3.7	4.1	7.8	(D)	(NA)	(NA)
ALABAMA	6	5	.7	4.9	.5	1.1	3.5	15.3	16.6	32.0	.2	BB	(D)
WEST SOUTH CENTRAL DIVISION.	65	38	5.0	40.1	3.6	7.7	26.9	96.0	63.5	157.4	6.5	3.2	49.5
ARKANSAS	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
LOUISIANA	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	9	5	.8	5.9	.6	1.2	3.9	12.6	11.2	23.6	.7	.3	3.7
TEXAS.	45	26	3.4	26.6	2.4	5.1	17.4	64.3	41.8	104.2	4.5	2.4	36.2

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of receipts	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2761-- MANIFOLD BUSINESS FORMS--CON.													
WEST REGION.	120	64	5.7	52.7	4.2	8.1	36.7	138.9	92.9	231.3	7.4	4.8	93.8
MOUNTAIN DIVISION.	20	12	.9	7.2	.7	1.2	4.6	19.5	8.6	28.0	.7	.4	4.4
COLORADO.	4	3	.3	2.0	.2	.3	1.1	3.1	2.2	5.1	.1	(NA)	(NA)
ARIZONA.	6	5	.2	1.8	.1	.3	1.0	3.2	1.8	5.0	.1	(NA)	(NA)
UTAH.	5	4	.4	3.0	.3	.6	2.2	12.5	4.1	16.5	(D)	(NA)	(NA)
PACIFIC DIVISION.	100	52	4.8	45.6	3.5	6.9	32.0	119.4	84.3	203.3	6.7	4.5	89.4
WASHINGTON.	8	4	.3	2.6	.2	.4	1.7	4.0	3.2	7.1	.3	.2	2.9
OREGON.	13	7	.6	4.7	.4	.8	3.5	16.3	8.5	24.5	1.3	.3	8.6
CALIFORNIA.	79	41	3.9	38.2	2.9	5.8	26.9	99.1	72.7	171.7	5.1	3.9	77.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis: 1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
INDUSTRY 2751.--COMMERCIAL PRINTING, LETTER-PRESS													
United States.....	13,342	1,264	153.8	1,395.2	123.5	228.8	1,024.2	2,444.9	1,627.4	4,055.3	153.5	175.1	1,947.9
Northeast Region.....	3,977	430	48.7	451.7	38.9	72.3	327.1	785.0	498.8	1,277.5	51.4	62.5	676.3
New England Division....	891	100	10.0	86.0	8.0	15.0	61.8	152.3	99.6	250.8	12.5	12.3	127.9
Maine.....	63	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.4
New Hampshire.....	54	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	9.4
Vermont.....	48	1	.2	1.2	.1	.3	.9	2.3	1.4	3.6	.2	.4	4.1
Massachusetts.....	457	58	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.1	54.7
Rhode Island.....	80	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.7
Connecticut.....	189	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	43.5

See footnotes at end of table.

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis:
1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
INDUSTRY 2751.--COMMERCIAL PRINTING, LETTERPRESS--Continued													
Northeast Region--Con.													
Middle Atlantic Div.....	3,086	330	38.6	365.7	30.9	57.2	265.4	632.7	399.1	1,026.8	38.9	50.2	548.4
New York.....	1,794	181	21.0	204.7	16.4	30.3	144.0	364.0	203.7	563.3	18.9	26.0	310.4
New Jersey.....	549	71	6.8	67.3	5.6	10.2	49.8	110.9	74.5	185.8	6.1	8.5	96.8
Pennsylvania.....	743	78	10.8	93.6	8.8	16.7	71.5	157.5	120.8	277.8	14.0	15.7	141.3
North Central Region..	3,615	399	55.3	527.0	44.2	83.3	394.4	899.4	610.7	1,503.8	53.0	61.9	719.1
East North Central Div..	2,635	304	46.5	458.8	37.5	71.1	347.5	776.6	524.8	1,295.9	45.0	52.3	624.3
Ohio.....	646	76	11.5	110.6	9.3	17.5	86.6	174.7	138.5	310.5	8.6	13.7	151.0
Indiana.....	296	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	48.6
Illinois.....	917	129	22.4	235.6	18.2	34.8	179.8	396.7	232.0	627.7	20.2	25.9	331.4
Michigan.....	489	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	50.8
Wisconsin.....	287	30	4.4	40.0	3.3	6.2	27.0	61.7	66.6	126.5	7.7	4.2	42.5
West North Central Div..	980	95	8.7	68.2	6.7	12.1	46.9	123.0	85.9	207.9	7.9	9.6	94.8
Minnesota.....	227	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	21.7
Iowa.....	164	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Missouri.....	331	31	3.0	24.8	2.4	4.3	18.1	41.5	29.6	70.7	2.6	3.5	34.9
South Dakota.....	28	2	.2	1.6	.1	.2	.9	3.0	1.8	4.7	.2	BB	(D)
Nebraska.....	77	7	.7	5.3	.6	.9	3.7	9.7	6.4	16.0	.4	EE	(D)
Kansas.....	133	14	1.2	8.5	.9	1.5	5.4	15.4	11.5	27.0	1.3	CC	(D)
South Region.....	3,409	271	30.9	250.8	25.3	46.6	185.1	466.0	324.8	788.1	30.7	33.2	350.0
South Atlantic Division..	1,779	154	16.8	134.1	13.6	24.9	96.7	254.4	180.3	432.3	16.7	17.3	185.3
Maryland.....	206	26	3.5	31.3	2.8	5.2	23.2	58.5	23.8	81.8	3.5	2.8	32.4
District of Columbia.....	73	6	.8	7.4	.7	1.2	5.6	12.3	7.6	20.0	1.0	2.2	29.3
Virginia.....	229	23	2.8	22.6	2.3	4.1	16.4	43.0	42.5	84.8	2.0	3.0	32.0
West Virginia.....	63	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.5
North Carolina.....	251	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	29.0
South Carolina.....	108	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.5
Georgia.....	259	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	25.2
Florida.....	568	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	26.0
East South Central Div..	561	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.3	85.6
Kentucky.....	115	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	41.4
Tennessee.....	226	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	27.5
Alabama.....	134	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	12.1
Mississippi.....	86	4	.4	2.7	.3	.6	2.0	5.4	4.2	9.5	.8	.5	4.7
West South Central Div..	1,069	70	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.7	79.0
Arkansas.....	71	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	8.0
Louisiana.....	156	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	10.6
Oklahoma.....	150	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	9.4
Texas.....	692	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.1	51.0
West Region.....	2,341	164	19.1	165.7	15.1	26.7	117.7	294.2	193.1	485.9	18.4	17.5	202.6
Mountain Division.....	458	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	25.2
Montana.....	20	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.6
Colorado.....	168	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
New Mexico.....	56	2	.2	1.2	.2	.3	.9	2.9	1.9	4.8	.2	.2	1.6
Arizona.....	94	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Utah.....	55	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.6
Pacific Division.....	1,883	134	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14.8	177.3
Washington.....	170	9	.9	6.5	.7	1.2	4.8	13.0	8.8	21.4	.8	EE	(D)
Oregon.....	122	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
California.....	1,536	120	13.8	124.3	10.9	19.5	88.9	234.1	146.7	380.0	13.3	12.7	155.0
Hawaii.....	39	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.1
INDUSTRY 2752.--COMMERCIAL PRINTING, LITHOGRAPHIC													
United States.....	8,692	2,232	186.8	1,882.5	141.2	266.8	1,297.1	3,204.9	2,027.9	5,211.2	225.6	146.8	1,897.7
Northeast Region.....	2,582	670	56.7	587.6	42.6	79.6	401.2	988.3	599.5	1,581.2	66.2	47.4	628.7
New England Division....	572	165	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.9	124.4
Maine.....	18	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire.....	29	7	1.3	10.4	1.1	2.2	8.2	15.2	9.5	24.8	.8	(NA)	(NA)
Vermont.....	21	7	.6	5.0	.4	.7	2.8	9.0	4.5	13.5	.8	(NA)	(NA)
Massachusetts.....	284	78	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.9	75.5
Rhode Island.....	43	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.3
Connecticut.....	177	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	40.9

See footnotes at end of table.

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis:
1972 and 1967—Continued

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
INDUSTRY 2752.--COMMERCIAL PRINTING, LITHOGRAPHIC--Continued													
Northeast Region--Conn.													
Middle Atlantic Div.....	2,010	505	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	36.4	504.2
New York.....	1,228	274	23.1	263.8	16.9	31.3	177.6	452.4	282.9	733.9	22.1	22.9	331.8
New Jersey.....	322	81	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	63.3
Pennsylvania.....	460	150	14.3	134.4	11.1	20.3	94.8	213.5	128.8	339.2	23.0	8.9	109.2
North Central Region..	2,640	785	71.0	736.5	54.0	103.8	515.0	1,275.5	816.6	2,083.5	96.1	60.5	763.6
East North Central Div..	1,952	569	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	43.9	568.6
Ohio.....	501	148	13.6	129.5	10.0	19.4	87.0	224.5	113.0	335.8	11.9	11.0	146.7
Indiana.....	194	55	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	32.1
Illinois.....	705	224	22.3	249.2	17.4	33.7	180.6	431.2	298.3	728.3	37.1	17.9	236.5
Michigan.....	331	73	7.1	77.3	5.2	9.9	51.6	130.2	96.2	225.8	8.2	6.9	85.2
Wisconsin.....	221	69	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	68.1
West North Central Div..	688	216	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.6	195.0
Minnesota.....	190	71	6.4	71.3	5.0	9.5	50.8	122.4	82.9	202.6	11.3	8.8	98.3
Iowa.....	105	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.2
Missouri.....	221	63	5.7	58.0	4.3	8.0	39.9	106.9	64.8	170.9	8.7	4.4	60.4
North Dakota.....	17	8	.4	1.8	.3	.5	1.3	2.7	1.6	4.3	.3	(NA)	(NA)
South Dakota.....	15	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska.....	59	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.7
Kansas.....	81	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	13.1
South Region.....	1,917	482	35.7	319.1	27.0	52.0	216.5	535.8	345.5	876.9	36.7	23.1	288.9
South Atlantic Division.	1,007	258	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.3	168.5
Delaware.....	20	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Maryland.....	131	51	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	28.4
District of Columbia.....	60	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	15.0
Virginia.....	127	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West Virginia.....	24	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina.....	141	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.4
South Carolina.....	47	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia.....	152	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	34.2
Florida.....	305	54	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	26.0
East South Central Div..	274	77	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	53.7
Kentucky.....	71	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.9
Tennessee.....	123	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Alabama.....	55	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi.....	25	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Div..	636	147	10.6	89.7	8.1	15.3	60.4	152.4	109.4	261.3	12.2	6.1	66.7
Arkansas.....	47	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.3
Louisiana.....	87	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.7
Oklahoma.....	86	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.5
Texas.....	416	104	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	46.2
West Region.....	1,553	295	23.4	239.3	17.5	31.6	164.3	405.4	266.3	669.5	26.6	15.6	216.6
Mountain Division.....	286	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	29.2
Idaho.....	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado.....	99	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	14.7
New Mexico.....	23	5	.2	1.9	.2	.3	1.1	3.2	2.0	5.2	.3	(NA)	(NA)
Arizona.....	72	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Utah.....	35	7	.4	3.2	.3	.6	2.4	5.9	3.2	9.1	.4	BB	(D)
Nevada.....	19	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.5
Pacific Division.....	1,267	245	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.3	187.4
Washington.....	122	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.9
Oregon.....	88	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	12.8
California.....	1,021	200	16.1	172.4	12.2	21.7	118.4	288.1	195.4	482.1	19.2	10.7	153.5
Hawaii.....	27	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.0

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Commercial printing, letterpress (SIC 2751)	Commercial printing, lithographic (SIC 2752)	Engraving and plate printing (SIC 2753)	Commercial printing, gravure (SIC 2754)	Manifold business forms (SIC 2761)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	87	87	92	87	93
COVERAGE RATIO ² DO	82	88	87	79	92
ESTABLISHMENTS, TOTAL NUMBER	13 196	8 388	560	135	667
WITH 1 TO 19 EMPLOYEES DO	12 027	6 253	428	47	291
WITH 20 TO 99 EMPLOYEES DO	1 019	1 788	118	46	262
WITH 100 EMPLOYEES OR MORE DO	150	347	14	42	114
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	130.1	184.0	9.6	20.0	38.6
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	1 131.0	1 835.3	80.7	225.4	343.6
PRODUCTION WORKERS:					
AVERAGE FOR YEAR 1,000	103.8	139.6	7.5	17.0	28.8
MARCH DO	103.5	138.2	8.0	16.8	28.5
MAY DO	102.9	138.8	7.6	16.7	28.5
AUGUST DO	103.5	138.8	7.1	17.0	28.6
NOVEMBER DO	105.3	142.7	7.4	17.3	29.5
MAN-HOURS MILLIONS	191.1	264.2	14.4	32.8	58.6
JANUARY-MARCH DO	47.1	64.3	3.7	7.9	14.5
APRIL-JUNE DO	47.1	65.8	3.8	8.0	14.5
JULY-SEPTEMBER DO	47.3	65.8	3.3	8.3	14.6
OCTOBER-DECEMBER DO	49.6	68.3	3.6	8.6	15.0
WAGES MILLION DOLLARS	813.2	1 266.2	58.1	182.3	235.2
COST OF MATERIALS, ETC., TOTAL DO	1 300.2	1 992.7	49.6	326.2	612.3
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED DO	1 129.6	1 631.3	41.1	303.6	559.2
COST OF REALES DO	46.5	74.1	4.3	7.1	39.4
FUELS CONSUMED DO	10.9	12.4	.5	3.3	1.8
PURCHASED ELECTRIC ENERGY DO	20.1	30.3	1.4	5.0	7.4
CONTRACT WORK DO	93.1	244.6	2.2	7.2	4.4
VALUE OF RECEIPTS, INCLUDING REALES DO	3 288.6	5 124.8	201.6	697.6	1 429.7
VALUE OF REALES DO	68.8	95.9	5.9	5.3	65.6
VALUE ADDED BY MANUFACTURE DO	2 001.6	3 155.1	152.4	372.2	823.6
MANUFACTURERS' INVENTORIES:					
BEGINNING OF YEAR, TOTAL DO	249.3	330.6	12.9	51.3	128.5
FINISHED PRODUCTS DO	56.0	61.7	1.3	11.7	38.1
WORK IN PROCESS DO	70.5	119.0	5.1	15.4	22.4
MATERIALS, SUPPLIES, FUEL, ETC. DO	122.8	149.9	6.5	24.2	68.0
END OF YEAR, TOTAL DO	262.5	373.5	12.3	51.7	143.8
FINISHED PRODUCTS DO	61.9	66.7	2.4	12.0	41.2
WORK IN PROCESS DO	77.8	137.0	4.3	15.9	25.4
MATERIALS, SUPPLIES, FUEL, ETC. DO	122.8	169.8	5.6	23.8	77.2
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	134.5	252.4	6.5	23.3	54.2
NEW PLANT AND EQUIPMENT, TOTAL DO	128.9	220.6	5.1	22.5	45.8
NEW STRUCTURES AND ADDITIONS TO PLANT DO	30.6	34.6	.8	1.7	5.9
NEW MACHINERY AND EQUIPMENT DO	93.3	186.0	4.3	20.8	39.9
USED PLANT AND EQUIPMENT DO	5.6	31.8	1.5	.8	8.4

¹The proportion of product receipts (both primary and secondary) of the industry represented by primary products.²The proportion of primary product receipts by the establishments classified in the industry to total receipts of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of receipts	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(million dollars)	(1,000)	(millions)	(million dollars)					
2751-- COMMERCIAL PRINTING, LETTERPRESS											
ESTABLISHMENTS, TOTAL. E3	13 196	130.1	1 131.0	103.8	191.1	813.2	2 001.6	1 300.2	3 288.6	128.9	262.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	8 637	14.0	109.3	13.8	21.8	80.6	259.8	166.9	426.7	21.1	32.6
5 TO 9 EMPLOYEES E7	2 182	14.0	112.4	11.1	21.2	81.9	210.7	130.6	341.1	15.9	24.1
10 TO 19 EMPLOYEES E3	1 208	16.4	131.5	12.7	24.2	92.9	222.4	133.9	355.9	13.8	21.5
20 TO 49 EMPLOYEES E2	779	23.4	187.9	18.0	31.6	129.2	528.0	199.3	526.2	21.7	35.1
50 TO 99 EMPLOYEES E1	240	16.3	137.8	12.3	23.3	93.4	243.4	164.5	405.5	13.2	37.6
100 TO 249 EMPLOYEES	108	16.1	133.3	12.0	23.2	91.8	248.2	180.9	426.3	16.0	44.9
250 TO 499 EMPLOYEES	27	9.2	86.1	7.2	14.1	64.6	153.3	127.4	278.0	9.2	30.4
500 TO 999 EMPLOYEES	11	9.2	92.6	7.0	12.9	64.5	125.7	81.4	206.1	6.1	19.1
1,000 TO 2,499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE.	3	11.5	140.3	9.7	18.7	114.2	210.2	115.2	322.8	11.9	17.2
ESTABS. COVERED BY ADMIN. RECORD ¹ .	8 767	20.5	161.2	18.8	31.9	119.4	345.8	226.5	572.3	26.4	45.2
2752-- COMMERCIAL PRINTING, LITHOGRAPHIC											
ESTABLISHMENTS, TOTAL. E1	8 388	184.0	1 835.3	139.6	264.2	1 266.2	3 155.1	1 992.7	5 124.8	220.6	373.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	3 471	6.2	55.4	5.7	9.1	38.1	130.8	84.2	215.0	8.5	14.3
5 TO 9 EMPLOYEES E4	1 292	8.6	79.1	6.6	12.4	54.3	148.8	91.6	240.1	10.5	12.5
10 TO 19 EMPLOYEES E1	1 490	20.5	185.6	15.3	28.7	124.6	313.5	191.1	503.9	13.9	24.8
20 TO 49 EMPLOYEES	1 310	40.0	380.4	29.7	56.5	253.6	637.8	381.5	1 016.2	42.8	56.7
50 TO 99 EMPLOYEES E1	478	32.0	323.3	23.7	44.7	217.3	550.6	368.9	914.3	34.9	66.5
100 TO 249 EMPLOYEES	260	38.4	398.5	29.3	55.5	280.0	693.7	448.3	1 132.3	39.8	95.8
250 TO 499 EMPLOYEES	62	20.7	230.2	16.0	31.1	166.6	381.4	228.2	607.3	35.5	54.2
500 TO 999 EMPLOYEES	22	13.8	149.4	10.2	20.0	104.1	232.4	155.3	386.5	28.6	37.6
1,000 TO 2,499 EMPLOYEES	3	3.8	33.5	3.3	6.3	27.8	66.2	43.7	109.1	1.0	11.3
ESTABS. COVERED BY ADMIN. RECORD ¹ .	3 415	8.1	73.7	7.1	11.9	50.5	165.5	107.1	272.5	10.3	18.5

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of receipts (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
2753-- ENGRAVING AND PLATE PRINTING											
ESTABLISHMENTS, TOTAL. E1	560	9.6	80.7	7.5	14.4	58.1	152.4	49.6	201.6	5.1	12.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	206	.4	2.5	.4	.6	1.9	7.4	1.9	9.3	.4	.3
5 TO 9 EMPLOYEES E5	122	.8	6.9	.7	1.2	5.0	14.1	4.8	18.9	.6	.6
10 TO 19 EMPLOYEES E2	100	1.3	11.3	1.1	2.1	8.4	21.9	6.7	28.5	.8	.9
20 TO 49 EMPLOYEES E1	98	2.8	23.9	2.2	4.4	16.5	39.7	14.1	54.6	1.4	3.1
50 TO 99 EMPLOYEES	20	1.4	10.1	1.0	2.1	7.2	15.3	6.4	21.7	.6	.9
100 TO 249 EMPLOYEES	13	2.8	26.0	2.2	4.1	19.1	54.1	15.6	68.6	1.2	6.4
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	221	.7	4.7	.6	1.0	3.6	12.0	3.2	15.2	.5	.6
2754-- COMMERCIAL PRINTING, GRAVURE											
ESTABLISHMENTS, TOTAL.	135	20.0	225.4	17.0	32.8	182.3	372.2	326.2	697.6	22.5	51.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	5	(Z)	.1	(Z)	(Z)	(Z)	.3	.3	.6	(Z)	(Z)
5 TO 9 EMPLOYEES	12	.1	1.0	.1	.1	.6	1.7	.9	2.6	.1	.1
10 TO 19 EMPLOYEES	30	.4	4.4	.3	.5	3.0	7.1	4.1	11.1	.7	.8
20 TO 49 EMPLOYEES	28	.9	9.6	.7	1.3	6.7	15.5	10.7	26.1	.6	2.3
50 TO 99 EMPLOYEES	18	1.3	11.7	1.1	2.0	8.7	22.1	25.1	46.9	1.0	3.9
100 TO 249 EMPLOYEES	19	3.2	36.1	2.6	5.0	26.0	63.1	57.1	123.6	3.2	8.5
250 TO 499 EMPLOYEES	13	4.7	52.6	3.8	7.6	43.0	86.3	98.2	184.0	5.1	11.9
500 TO 999 EMPLOYEES	6	4.1	55.4	3.5	7.2	46.2	87.8	64.4	148.5	2.5	14.0
1,000 TO 2,499 EMPLOYEES	4	5.3	54.6	4.9	9.0	48.2	88.4	65.6	154.2	9.3	10.2
2761-- MANIFOLD BUSINESS FORMS											
ESTABLISHMENTS, TOTAL.	667	38.6	343.6	28.8	58.6	235.2	823.6	612.3	1 429.7	45.8	143.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	108	.2	1.6	.2	.3	1.2	3.8	2.9	6.8	.3	.7
5 TO 9 EMPLOYEES E3	63	.4	3.7	.3	.6	2.4	7.6	5.5	13.0	.9	1.1
10 TO 19 EMPLOYEES E1	120	1.7	14.6	1.3	2.5	9.8	27.2	19.8	46.9	2.3	3.4
20 TO 49 EMPLOYEES E1	170	5.3	47.2	3.9	7.9	30.9	88.3	69.2	156.9	6.5	14.2
50 TO 99 EMPLOYEES	92	6.3	55.2	4.7	9.5	36.8	117.5	103.8	220.2	10.8	21.7
100 TO 249 EMPLOYEES	84	13.1	115.3	9.9	20.4	79.2	306.8	244.2	547.9	13.2	56.9
250 TO 499 EMPLOYEES	24	7.8	70.5	5.8	11.9	49.4	191.1	120.1	309.7	10.3	32.3
500 TO 999 EMPLOYEES	6	3.7	35.5	2.7	5.6	25.4	81.3	46.8	128.3	1.6	13.6
ESTABS. COVERED BY ADMIN. RECORD ¹ .	101	.3	2.4	.3	.5	1.7	5.7	4.4	10.1	.4	1.0

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of receipts (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2751	COMMERCIAL PRINTING, LETTERPRESS										
	ENTIRE INDUSTRY	13 196	130.1	1 131.0	103.8	191.1	813.2	2 001.6	1 300.2	3 288.6	128.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	12 708	99.0	823.2	80.2	145.4	594.1	1 490.7	992.2	2 474.3	103.8
27511	MAGAZINE AND PERIODICAL PRINTING (LETTERPRESS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	112	22.2	239.6	18.5	35.0	193.2	347.0	202.9	546.5	20.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	52	9.6	97.6	8.1	15.2	81.0	125.4	104.5	228.5	8.3
27512	LABELS AND WRAPPERS PRINTING (LETTERPRESS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	286	12.9	118.2	9.6	19.8	76.7	239.4	230.9	464.6	14.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	203	8.8	80.9	6.4	13.4	51.4	171.7	157.8	325.9	9.8
27513	CATALOGS AND DIRECTORIES PRINTING (LETTERPRESS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	26	4.2	44.2	3.5	6.2	32.7	72.5	66.9	139.9	2.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	10	1.3	12.5	1.1	1.8	10.3	19.3	18.1	38.0	.6

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of receipts (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2751	COMMERCIAL PRINTING, LETTERPRESS--CONTINUED										
27514	FINANCIAL AND LEGAL PRINTING (LETTERPRESS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	116	6.4	58.3	5.1	9.7	42.2	110.3	41.4	150.1	5.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	69	4.0	33.7	3.3	6.1	25.2	67.5	27.4	94.3	3.7
27515	ADVERTISING PRINTING (LETTERPRESS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	303	8.4	76.5	6.0	11.2	49.7	132.2	102.8	234.4	9.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	162	4.5	42.8	3.5	6.4	29.8	76.8	54.8	131.3	7.6
27516	OTHER GENERAL JOB PRINTING (LETTERPRESS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	717	18.1	147.5	13.2	25.1	97.6	243.3	133.8	376.1	10.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	441	10.5	84.2	7.6	14.3	56.2	131.7	82.8	213.8	5.6
27519	SCREEN PROCESS PRINTING, EXCEPT TEXTILES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	263	8.1	63.3	6.1	11.8	39.9	111.1	55.9	166.7	4.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	229	6.6	50.7	5.2	9.9	33.0	91.2	46.0	136.4	3.6
2752	COMMERCIAL PRINTING, LITHOGRAPHIC										
	ENTIRE INDUSTRY	8 388	184.0	1 835.3	139.6	264.2	1 266.2	3 155.1	1 992.7	5 124.8	220.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION .	7 324	137.1	1 369.6	105.5	197.4	953.3	2 383.2	1 538.6	3 905.2	169.9
27521	MAGAZINE AND PERIODICAL PRINTING (LITHOGRAPHIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	244	25.8	253.6	20.6	40.4	193.5	413.7	276.0	686.0	50.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	69	8.3	76.0	6.7	12.6	57.5	122.7	74.8	197.0	26.8
27522	LABELS AND WRAPPERS PRINTING (LITHOGRAPHIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	136	8.9	93.3	6.8	13.4	67.5	160.3	113.8	273.5	7.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	65	4.3	47.2	3.4	6.7	34.7	77.0	53.2	131.5	4.6
27523	CATALOGS AND DIRECTORIES PRINTING (LITHOGRAPHIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	182	11.9	126.9	9.1	17.6	89.4	203.0	153.4	354.7	19.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	62	3.0	26.9	2.4	4.4	19.9	46.5	28.1	73.9	1.9
27524	FINANCIAL AND LEGAL PRINTING (LITHOGRAPHIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	149	6.7	99.3	6.4	12.6	65.9	178.1	69.6	246.9	5.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	44	2.6	29.2	2.0	3.8	20.8	53.8	22.7	76.9	2.2
27525	ADVERTISING PRINTING (LITHOGRAPHIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1 812	61.9	668.9	45.9	87.0	448.4	1 124.3	753.8	1 870.7	72.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	766	24.5	272.3	18.1	33.6	182.4	469.2	328.4	795.8	31.0
27526	OTHER GENERAL JOB PRINTING (LITHOGRAPHIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1 223	37.5	340.7	27.7	52.2	229.7	598.6	330.4	922.7	27.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	570	16.9	145.7	13.2	24.8	104.1	265.8	146.9	407.6	12.8
2753	ENGRAVING AND PLATE PRINTING										
	ENTIRE INDUSTRY	560	9.6	80.7	7.5	14.4	58.1	152.4	49.6	201.6	5.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION .	523	8.1	66.9	6.5	12.3	49.0	128.9	39.1	167.8	4.4
2754	COMMERCIAL PRINTING, GRAVURE										
	ENTIRE INDUSTRY	135	20.0	225.4	17.0	32.8	182.3	372.2	326.2	697.6	22.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION .	99	13.5	157.7	11.6	23.0	130.1	264.4	241.4	505.9	16.6
27541	PUBLICATION PRINTING, GRAVURE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	29	10.8	126.0	9.7	18.6	109.4	199.0	143.6	343.9	12.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	18	5.1	64.0	4.6	9.1	56.8	91.9	86.0	178.2	8.3
27542	LABELS, WRAPPERS, WRAP PRINTING, GRAVURE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	29	4.7	45.3	3.7	7.6	32.1	82.9	130.9	212.5	5.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	20	2.3	21.3	1.9	3.8	14.8	34.3	66.3	100.9	2.8
27543	ADVERTISING PRINTING, GRAVURE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	27	1.8	22.9	1.4	2.8	17.3	38.5	24.8	63.2	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	17	1.0	13.9	.8	1.6	10.2	26.1	17.3	43.3	1.0
27544	OTHER COMMERCIAL PRINTING, GRAVURE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	17	.8	7.0	.6	1.3	4.9	15.9	14.2	29.3	.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	12	.4	2.9	.4	.7	2.2	8.3	3.6	11.5	.3
27545	GRAVURE PLATES AND CYLINDERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	22	1.5	20.8	1.1	2.0	15.8	31.4	7.5	38.8	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	12	.3	3.6	.2	.5	2.9	5.5	1.4	6.9	.1
2761	MANIFOLD BUSINESS FORMS										
	ENTIRE INDUSTRY	667	38.6	343.6	28.8	58.6	235.2	823.6	612.3	1 429.7	45.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION .	575	32.9	293.1	24.7	50.4	201.8	707.7	544.7	1 248.6	40.0
27612	UNIT SET FORMS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	290	18.2	158.8	13.3	27.4	107.7	351.1	224.2	571.9	22.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	154	7.3	60.9	5.6	11.4	42.4	144.6	92.9	236.8	13.1
27613	SALES AND OTHER MANIFOLD BOOKS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	13	1.0	8.3	.8	1.6	5.3	14.3	9.0	23.3	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	7	.5	3.7	.4	.8	2.4	5.6	3.3	8.9	.1
27615	CUSTOM FORMS WITH/WITHOUT CARBON, MARGIN PUNCHED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	138	14.7	137.2	11.1	22.8	94.6	339.5	249.5	586.4	18.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	63	6.4	58.6	5.0	10.3	41.7	155.4	116.6	270.9	9.7
27617	STOCK CONTINUOUS FORMS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	36	2.8	23.7	2.1	4.2	16.8	87.3	107.7	194.9	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	19	1.0	8.6	.8	1.6	6.4	38.7	50.6	89.6	1.9

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Receipts; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the receipts of products representing the largest amount considered as primary to an industry. Frequently the establishment receipts comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of receipts					Value of primary product receipts			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
2751	Commercial printing, letterpress..... 1972..	3,288.6	2,785.1	421.4	82.1	87	3,404.8	2,785.1	619.7	82
	..... 1967..	3,255.5	2,700.4	430.3	124.8	86	3,265.0	2,700.4	564.6	83
2752	Commercial printing, lithographic..... 1972..	5,124.8	4,334.7	653.8	136.3	87	4,919.6	4,334.7	584.9	88
	..... 1967..	3,139.4	2,498.0	549.3	92.1	82	3,132.9	2,498.0	634.9	80
2753	Engraving and plate printing..... 1972..	201.6	178.2	15.9	7.5	92	205.0	178.2	26.8	87
	..... 1967..	137.9	122.6	11.8	3.5	91	151.3	122.6	28.7	81
2754	Commercial printing, gravure..... 1972..	697.6	598.3	91.5	7.8	87	759.1	598.3	160.8	79
	..... 1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2761	Manifold business forms..... 1972..	1,429.7	1,267.9	92.0	69.8	93	1,381.9	1,267.9	114.0	92
	..... 1967..	932.3	809.2	81.5	41.6	91	895.8	809.2	86.6	90

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Receipts by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Commercial printing, letterpress (SIC 2751)	Commercial printing, lithographic (SIC 2752)	Engraving and plate printing (SIC 2753)	Commercial printing, gravure (SIC 2754)	Manifold business forms (SIC 2761)	Other industries
	Total value of receipts of the industry.....	(X)	3,288.6	5,124.8	201.6	697.6	1,429.7	(X)
2751-	Commercial printing, letterpress.....	3,404.8	2,785.1	282.7	3.8	35.6	33.0	264.6
27511	Magazine and periodical printing, letterpress.....	424.3	350.0	43.7	-	17.3	2.1	11.2
27512	Labels and printed rolls and sheets for packaging purposes, letterpress.....	501.9	382.6	26.5	.1	15.8	4.3	72.6
27513	Catalog and directory printing, letterpress.....	134.3	107.9	16.3	(under 2)	(under 2)	2.1	7.8
27514	Financial and legal printing, letterpress.....	190.1	126.1	49.5	(under 2)	(under 2)	2.8	11.0
27515	Advertising printing, letterpress.....	268.7	181.6	56.3	.3	1.9	2.0	26.6
27516	Other general job printing, letterpress.....	522.7	299.4	73.5	2.7	.2	19.6	127.3
27519	Screen process printing, except textiles.....	172.1	154.0	14.3	-	(under 2)	(under 2)	3.7
27510	Commercial printing, n.s.k., letterpress.....	1,190.7	1,183.5	2.6	(under 2)	-	(under 2)	4.4
2752-	Commercial printing, lithographic.....	4,919.6	197.3	4,334.7	3.1	12.6	34.3	337.6
27521	Magazine and periodical printing, lithographic.....	631.6	45.6	545.0	-	6.9	.1	34.0
27522	Labels and printed rolls and sheets for packaging purposes, lithographic.....	280.3	19.7	248.2	(under 2)	(2-5)	(under 2)	(5-10)
27523	Catalog and directory printing, lithographic.....	464.1	47.0	359.6	-	1.6	.5	55.4
27524	Financial and legal printing, lithographic.....	271.1	(10-20)	241.3	(under 2)	(under 2)	(2-5)	9.7
27525	Advertising printing, lithographic.....	1,553.9	39.4	1,425.1	.1	.9	2.8	85.6
27526	Other general job printing, lithographic.....	967.7	28.7	768.5	2.3	.5	26.4	141.3
27520	Commercial printing, n.s.k., lithographic.....	750.9	(under 2)	747.0	-	-	-	(2-5)
2753-	Engraving and plate printing.....	205.0	4.7	7.3	178.2	1.1	-	13.7

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Receipts by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Commercial printing, letterpress (SIC 2751)	Commercial printing, lithographic (SIC 2752)	Engraving and plate printing (SIC 2753)	Commercial printing, gravure (SIC 2754)	Manifold business forms (SIC 2761)	Other industries
Value of receipts of the industry--Continued								
2754-	Commercial printing, gravure.....	759.1	86.5	11.5	(under 2)	598.3	(under 2)	60.7
27541	Publication printing, gravure.....	355.7	65.9	.2	(under 2)	281.8	(under 2)	7.7
27542	Labels and printed rolls and sheets for packaging purposes, gravure..	189.9	12.0	3.0	-	150.2	-	24.7
27543	Advertising printing, gravure.....	100.9	(2-5)	6.6	-	91.9	(under 2)	(under 2)
27544	Other commercial printing, gravure.....	46.8	4.8	1.6	-	39.1	(under 2)	(under 2)
27545	Gravure plates and cylinders.....	33.7	(under 2)	(under 2)	-	25.8	-	6.2
27540	Commercial printing, n.s.k., gravure.....	32.1	-	(under 2)	-	9.5	(under 2)	21.7
2761-	Manifold business forms.....	1,381.9	10.7	76.0	.1	-	1,267.9	27.2
27612	Unit set forms.....	514.2	4.8	45.6	.1	-	452.6	11.1
27613	Sales and other manifold books.....	51.5	(under 2)	(2-5)	-	-	46.9	-
27615	Custom continuous forms.....	553.6	2.2	22.2	-	-	518.6	10.6
27617	Stock continuous forms.....	204.9	1.7	4.6	-	-	197.9	.7
27610	Manifold business forms, n.s.k.....	57.7	(under 2)	(under 2)	-	-	51.9	4.8
Other product receipts by 4-digit product group:								
2641-	Paper coating and glazing.....	(X)	12.7	(under 2)	-	(5-10)	-	(X)
2643-	Bags, except textile bags.....	(X)	14.5	(2-5)	-	(under 2)	-	(X)
2645-	Die-cut paper and board.....	(X)	1.3	2.2	-	-	2.9	(X)
2649-	Converted paper products, n.e.c.....	(X)	5.6	(under 2)	-	-	(under 2)	(X)
2651-	Folding paperboard boxes.....	(X)	-	4.5	-	-	-	(X)
2654-	Sanitary food containers.....	(X)	-	(2-5)	-	-	-	(X)
2721-	Periodicals.....	(X)	(under 2)	10.1	-	(under 2)	-	(X)
2731-	Book publishing.....	(X)	(under 2)	3.2	-	-	-	(X)
2732-	Book printing.....	(X)	58.4	194.3	.2	2.7	1.6	(X)
2771-	Greeting card publishing.....	(X)	1.0	8.4	(under 2)	-	(under 2)	(X)
2782-	Blank books and looseleaf binders.....	(X)	1.4	8.0	-	-	(under 2)	(X)
2789-	Bookbinding and related work.....	(X)	3.7	3.1	(under 2)	-	(under 2)	(X)
2791-	Typesetting.....	(X)	3.6	13.7	.5	(under 2)	(under 2)	(X)
2793-	Photoengraving.....	(X)	.8	2.5	2.9	7.3	(under 2)	(X)
2795-	Lithographic platemaking services.....	(X)	(under 2)	6.1	1.4	4.0	(under 2)	(X)
3479-	Metal coating and allied services.....	(X)	(under 2)	(2-5)	(under 2)	-	-	(X)
3497-	Metal foil and leaf.....	(X)	4.5	(under 2)	-	20.3	-	(X)
3555-	Printing trades machinery.....	(X)	(2-5)	(under 2)	(under 2)	(under 2)	-	(X)
3569-	General industrial machinery, n.e.c.....	(X)	(2-5)	-	-	-	-	(X)
3579-	Office machines, n.e.c.....	(X)	-	(under 2)	-	-	(2-5)	(X)
3955-	Carbon paper and inked ribbon.....	(X)	-	-	-	-	9.7	(X)
	Other secondary products.....	(X)	6.0	8.9	2.9	.1	3.8	(X)
	Miscellaneous receipts.....	(X)	82.1	136.3	7.5	7.8	69.8	(X)
93000	Contract work.....	(X)	4.4	2.4	(under 2)	-	-	(X)
99989	Resales.....	(X)	68.8	95.9	5.9	5.3	65.6	(X)
99980	Other miscellaneous receipts.....	(X)	8.9	38.0	(under 2)	2.5	4.2	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries			
Listing of the other industries with over \$2 million receipts of the primary products			Listing of the other industries with over \$2 million receipts of the primary products--Continued					
2751-	2641 Paper coating and glazing.....	13.5	2752-	2782 Blankbooks and looseleaf binders.....	9.6			
	2642 Envelopes.....	2.3		2789 Bookbinding and related work.....	2.2			
	2643 Bags, except textile bags.....	42.7		2791 Typesetting.....	2.8			
	2645 Die-cut paper and board.....	6.5		2795 Lithographic platemaking services.....	3.2			
	2651 Folding paperboard boxes.....	10.8		3079 Miscellaneous plastics products.....	(2-5)			
	2711 Newspapers.....	109.8		3411 Metal cans.....	27.1			
	2721 Periodicals.....	6.8		3861 Photographic equipment and supplies.....	(2-5)			
	2732 Book printing.....	17.6		3993 Signs and advertising displays.....	(2-5)			
	2741 Miscellaneous publishing.....	2.2	2753-	2793 Photoengraving.....	4.6			
	2771 Greeting card publishing.....	4.5		2794 Electrotyping and stereotyping.....	2.7			
	2782 Blankbooks and looseleaf binders.....	7.7	2754-	2641 Paper coating and glazing.....	6.3			
	2789 Bookbinding and related work.....	3.1		2642 Envelopes.....	(2-5)			
	3411 Metal cans.....	(5-10)		2711 Newspapers.....	5.5			
	3498 Metal foil and leaf.....	(2-5)		2793 Photoengraving.....	5.1			
	3861 Photographic equipment and supplies.....	(2-5)		3353 Aluminum sheet, plate, and foil.....	(10-20)			
2752-	2651 Folding paperboard boxes.....	8.3		3497 Metal foil and leaf.....	13.8			
	2711 Newspapers.....	132.0		3861 Photographic equipment and supplies.....	(2-5)			
	2721 Periodicals.....	10.2	2761-	2645 Die-cut paper and board.....	13.3			
	2731 Book publishing.....	8.4		2732 Book printing.....	3.4			
	2732 Book printing.....	105.3		2782 Blankbooks and looseleaf binders.....	8.4			
	2771 Greeting card publishing.....	7.4						

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Value of Receipts by All Producers: 1972 and 1967

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
2751- --	COMMERCIAL PRINTING, LETTERPRESS, TOTAL.....	3,404.8	2,834.6
27511 --	Magazine and Periodical Printing, Letterpress.....	424.3	512.7
27511 15	Magazines and periodicals, except magazine and comic supplements for Sunday newspapers.....	367.7	458.8
27511 17	Magazine and comic supplements for Sunday newspapers.....	47.5	34.4
27511 00	Magazine and periodical printing, letterpress, n.s.k.....	9.1	19.5
27512 --	Labels and Printed Rolls and Sheets for Packaging Purposes, Letterpress.....	501.9	390.2
	Labels, custom and stock printed, including bordered, made of paper or foil, but excluding labels made of cloth:		
27512 12	Flat (except pressure sensitive), including flexographic.....	109.4	121.8
27512 14	Rolls (except pressure sensitive), including flexographic.....	38.7	33.8
	Pressure sensitive (self-adhesive):		
27512 16	Flat (letterpress).....	13.9	51.6
27512 18	Rolls (letterpress).....	48.0	
27512 19	Flexographic, flat and rolls.....	64.9	
27512 21	Marginally punched labels, all types.....	15.8	
	Printed rolls and sheets for packaging purposes:		
27512 31	Cellophane, flexographic (single web).....	44.0	78.3
27512 33	Paper, including flexographic (single web).....	35.9	29.1
27512 41	Polyethylene, including flexographic (single web).....	56.7	62.9
27512 43	Other, including flexographic (including multiweb structures).....	55.1	
27512 00	Labels and printed rolls and sheets for packaging purposes, letterpress, not reported separately...	19.5	12.7
27513 --	Catalog and Directory Printing, Letterpress.....	134.3	171.3
27513 11	Catalogs.....	29.0	84.3
	Directories:		
27513 17	Telephone.....	98.2	81.7
27513 19	Other, including business reference services.....	5.2	
27513 00	Catalog and directory printing, letterpress, not reported separately.....	1.9	5.3
27514 --	Financial and Legal Printing, Letterpress.....	190.1	152.9
27514 11	SEC filing and prospectuses.....	24.8	72.8
27514 13	Annual reported and other corporate financial printing.....	12.8	
27514 19	Other financial and legal printing, including insurance forms, security certificates, briefs, etc..	62.1	
27514 25	Bank printing, including deposit slips, counter checks, business checks, imprinting of bank checks, etc., but excluding checkbooks.....	60.1	53.2
27514 27	Bank form printing, including printing of passbooks, debit and credit slips, ledger and statement sheets, installment-loan coupon books, etc., but excluding checkbooks.....	7.6	16.7
27514 00	Financial and legal printing, letterpress, not reported separately.....	22.7	10.2
27515 --	Advertising Printing, Letterpress.....	268.7	345.7
27515 11	Direct mail, including circulars, letters, pamphlets, cards and printed envelopes.....	109.3	217.2
	Display advertising:		
27515 23	Posters, including outdoor advertising; car cards; and window.....	15.7	28.1
27515 25	Counter, and floor displays; point-of-purchase; and other printed display materials.....	10.7	
	Preprinted newspaper inserts (advertising supplements not regularly issued):		
27515 31	Rolls, including hi-fi and spectacular.....	7.7	75.9
27515 33	Sections (2 pages or more).....	19.4	
27515 41	Shopping news.....	13.2	
27515 98	Other advertising printing, including brochures, pamphlets, catalog sheets, circular folders, announcements, package inserts, book jackets, market circulars, magazine inserts, etc.....	55.9	24.5
27515 00	Advertising printing, letterpress, n.s.k.....	36.8	
27516 --	Other General Job Printing, Letterpress.....	522.7	527.7
27516 13	Scientific and technical recording charts and chart paper (containing preprinted grids and scale markings), except pen ruled.....	27.7	46.9
27516 24	Trading stamps and all types of seals, including private and decorative stamps.....	(D)	9.5
27516 34	Food and beverage checks.....	2.7	11.5
27516 41	Newspapers.....	92.3	81.5
27516 44	Ticket and coupon printing, including transportation and amusement.....	23.0	19.3
27516 51	Decalcomanias and pressure sensitives (self-adhesive), including bumper stickers, etc., but excluding labels.....	5.2	(NA)
27516 71	Business forms, n.e.c., excluding blankbooks and looseleaf forms.....	80.8	92.8
27516 75	Tags printed, including embossing.....	31.4	38.9
27516 81	Playing cards printed.....	5.0	8.1
27516 83	Credit and identification cards printed (plastic, paper laminations, etc.), including flexographic.	13.4	5.3
27516 91	Printing on metal.....	(D)	4.4
27516 93	Calendars and calendar pads.....	29.1	33.3
27516 98	All other general commercial printing, (letterpress) not elsewhere reported, including maps, atlases, globe covers, etc.....	135.8	133.1
27516 00	Other general job printing, letterpress, n.s.k.....	68.6	43.1

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Receipts by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
2751- --	COMMERCIAL PRINTING, LETTERPRESS--Continued		
27519 --	Screen Process Printing, Except Textiles.....	172.1	93.3
27519 11	Decalcomanias and pressure sensitives (self-adhesive), including bumper stickers, etc., but excluding labels.....	35.9	14.6
	Labels, custom and stock printed, including bordered, made of paper or foil but excluding labels made of cloth:		
27519 15	Decalcomanias, except pressure sensitive.....	10.9	12.7
27519 17	Pressure sensitive, flat and rolls.....	34.3	10.9
	Display advertising:		
27519 23	Posters, including outdoor advertising; car cards; and window.....	25.8	28.6
27519 25	Counter and floor displays; point-of-purchase; and other printed display materials.....	14.9	
27519 29	Other advertising printing, including brochures, pamphlets, catalog sheets, circular folders, announcements, package inserts, book jackets, market circulars, magazine inserts, etc.....	12.7	9.8
27519 81	Printing on metal.....	4.8	(NA)
27519 85	Printing on glass or plastic containers for others.....	7.3	11.2
27519 98	All other general commercial printing, not elsewhere reported, including maps, atlases, globe covers, etc.....	14.7	
27519 00	Screen process printing, except textiles, n.s.k.....	10.8	5.5
27510 00	Commercial printing, letterpress, for companies with 10 employees or more. (See note.).....	616.4	319.5
27510 02	Commercial printing, letterpress, for companies with less than 10 employees. (See note.).....	574.3	321.3
2752- --	COMMERCIAL PRINTING, LITHOGRAPHIC, TOTAL.....	4,919.6	2,981.7
27521 --	Magazine and Periodical Printing, Lithographic.....	631.6	296.1
	Magazines and periodicals, excluding magazine and comic supplements for Sunday newspapers:		
27521 12	Sheet-fed.....	163.9	98.5
27521 14	Web-fed.....	349.0	179.6
27521 17	Magazine and comic supplements for Sunday newspapers.....	69.0	10.4
27521 00	Magazine and periodical printing, lithographic, n.s.k.....	49.7	7.6
27522 --	Labels and Printed Rolls and Sheets for Packaging Purposes, Lithographic.....	280.3	186.9
	Labels, custom and stock printed, including bordered, made of paper or foil, but excluding labels made of cloth:		
	Flat, except pressure sensitive:		
27522 11	Sheet-fed.....	194.8	113.2
27522 13	Web-fed.....	28.8	8.8
27522 17	Pressure sensitive, flat and rolls.....	24.1	35.5
	Printed rolls and sheets for packaging purposes:		
27522 34	Paper (single web).....	11.7	22.9
27522 43	Other, including multiweb structures.....	6.7	(NA)
27522 00	Labels and printed rolls and sheets for packaging purposes, lithographic, n.s.k.....	14.2	6.5
27523 --	Catalog and Directory Printing, lithographic.....	464.1	267.7
	Catalogs:		
27523 12	Sheet-fed.....	149.8	117.0
27523 14	Web-fed.....	169.4	74.4
	Directories:		
27523 17	Telephone.....	84.9	60.2
27523 19	Other, including business reference services.....	37.7	
27523 00	Catalog and directory printing, lithographic, n.s.k.....	22.3	16.1
27524 --	Financial and Legal Printing, Lithographic.....	271.1	137.7
27524 11	SEC filing and prospectuses.....	60.4	68.2
27524 13	Annual reports and other corporate financial printing.....	64.6	
27524 19	Other financial and legal printing, including insurance.....	62.6	49.4
27524 25	Bank printing, including deposit slips, counter checks, business checks, imprinting on bank checks, etc., but excluding checkbooks.....	41.4	
27524 27	Bank form printing, including printing of passbooks, debit and credit slips, ledger and statement sheet, installment-loan coupon books, etc., but excluding checkbooks.....	22.4	16.8
27524 00	Financial and legal printing, lithographic, n.s.k.....	19.7	3.3
27525 --	Advertising Printing, Lithographic.....	1,553.9	967.6
	Direct mail, including circulars, letters, pamphlets, cards, and printed envelopes:		
27525 12	Sheet-fed.....	461.4	444.2
27525 14	Web-fed.....	209.8	111.6
	Display advertising:		
27525 23	Posters, including outdoor advertising; car cards; and window.....	59.1	122.0
27525 25	Counter and floor displays; point-of-purchase; and other printed display material.....	53.8	
	Preprinted newspaper inserts (advertising supplements not regularly issued):		
27525 32	Rolls, including hi-fi and spectacolor.....	11.8	223.6
27525 33	Sections (2 pages or more).....	55.8	
27525 41	Shopping news.....	20.0	66.2
	Other advertising printing, including brochures, pamphlets, catalog sheets, circular folders, announcements, package inserts, book jackets, market circulars, magazine inserts, etc.:		
27525 51	Sheet-fed.....	503.9	66.2
27525 53	Web-fed.....	119.1	
27525 00	Advertising printing, lithographic, n.s.k.....	59.2	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Receipts by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
2752- --	COMMERCIAL PRINTING, LITHOGRAPHIC--Continued		
27526 --	Other General Job Printing, Lithographic.....	967.7	705.6
	Newspapers:		
27526 12	Sheet-fed.....	11.6	17.3
27526 14	Web-fed.....	119.6	42.0
27526 13	Scientific and technical recording charts and chart paper (containing preprinted grids and scale marketings), except pen ruled.....	51.3	(S)
27526 21	Map, atlas, and globe cover printing, including road maps and strip maps.....	16.2	10.0
27526 43	Calendars and calendar pads.....	35.2	32.5
27526 44	Ticket, coupon, and food and beverage check printing, including transportation and amusement.....	16.1	5.5
27526 47	Playing cards, printed.....	39.2	28.1
27526 51	Decalcomanias and pressure sensitives (self-adhesive), including bumper stickers, etc., but excluding labels.....	9.7	13.5
27526 71	Trading stamps and all types of seals, including private and decorative stamps.....	9.7	7.7
27526 81	Printing on metal.....	57.0	(D)
27526 83	Credit and identification cards printed (plastic, paper laminations, etc.).....	10.5	5.9
	Business forms, n.e.c., excluding blankbooks and looseleaf forms:		
27526 92	Sheet-fed.....	119.4	77.1
27526 94	Web-fed.....	43.7	21.3
27526 95	Art reproductions and picture prints.....	11.4	33.6
	All other general commercial printing, not elsewhere reported (lithographic):		
27526 97	Sheet-fed.....	233.1	76.6
27526 99	Web-fed.....	35.7	10.9
27526 00	Other general job printing, lithographic, n.s.k.....	148.3	(D)
27520 00	Commercial printing, lithographic, n.s.k., for companies with 10 employees or more. (See note.)....	474.9	266.4
27520 02	Commercial printing, lithographic, n.s.k., for companies with less than 10 employees. (See note.)...	276.0	153.7
2753- --	ENGRAVING AND PLATE PRINTING, TOTAL.....	205.0	151.3
27530 --	Engraving and Plate Printing, Except Photoengraving:		
	Kind of product:		
27530 12	Security.....	34.2	21.5
27530 22	Social.....	34.1	25.2
27530 32	Commercial.....	53.6	34.1
	Plates made for others, excluding duplicates:		
27530 42	Intaglio plates.....	1.9	5.9
27530 52	Other.....	14.2	13.3
	Duplicate plates for letterpress:		
27530 71	Rubber plates.....	10.5	9.1
27530 75	Other.....	8.7	10.8
27530 00	Engraving and plate printing, n.s.k., for companies with 10 employees or more. (See note.).....	32.6	20.8
27530 02	Engraving and plate printing, n.s.k., for companies with less than 10 employees. (See note.).....	15.2	10.6
2754- --	COMMERCIAL PRINTING, GRAVURE, TOTAL.....	759.1	430.4
27541 --	Publication Printing, Gravure.....	355.7	216.3
27541 11	Newspapers.....	(D)	2.4
27541 33	Magazines and periodicals, excluding magazine and comic supplements for Sunday newspapers.....	118.1	59.7
27541 35	Magazine and comic supplements for Sunday newspapers.....	77.0	65.3
27541 74	Catalogs.....	147.7	73.1
	Directories:		
27541 77	Telephone.....	-	.8
27541 79	Other, including business reference services.....	(D)	
27541 00	Publication printing, gravure, n.s.k.....	11.7	15.0
27542 --	Labels and Printed Rolls and Sheets for Packaging Purposes, Gravure.....	189.9	(NA)
	Labels, custom and stock printed, including bordered, made of paper or foil but excluding labels made of cloth:		
27542 21	Flat, except pressure sensitive.....	55.7	33.2
27542 24	Rolls, except pressure sensitive.....	48.1	26.7
27542 27	Pressure sensitive (self-adhesive), flat and rolls.....	(D)	(NA)
	Printed rolls and sheets except bags, envelopes, pouches, etc. for packaging purposes:		
27542 31	Cellophane (single web).....	(D)	6.1
27542 32	Paper (single web).....	10.5	25.3
27542 35	Other, including multiweb structures.....	46.9	(D)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Receipts by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
2754- --	COMMERCIAL PRINTING, GRAVURE--Continued		
27543 --	Advertising Printing, Gravure (designed to sell products or services).....	100.9	29.8 ^e
27543 41	Advertising printing (direct mail, including circulars, letters, pamphlets, cards, and printed envelopes).....	29.2	29.8
	Display advertising:		
27543 43	Posters, including outdoor advertising; car cards; and window.....	(D)	
27543 45	Counter, and floor displays; point-of-purchase, and other printed display material.....	(D)	
	Preprinted newspaper inserts (advertising supplements not regularly issued):		
27543 46	Rolls, including hi-fi and spectacular.....	(D)	
27543 47	Sections (2 pages or more).....	34.3	
27543 49	Other advertising printing, including brochures, pamphlets, catalog sheets, circular folders, announcements, package inserts, book jackets, market circulars, magazine inserts, etc.....	19.2	
27544 --	Other Commercial Printing, Gravure.....	46.8	(NA)
27544 73	Trading stamps and all types of seals, including private and decorative stamps.....	(D)	(D)
27544 81	Playing cards, printed.....	-	(D)
27544 92	Coupon printing.....	(D)	18.2
27544 93	Calendars and calendar pads.....	(D)	
27544 98	All other general commercial printing (gravure printing), not elsewhere reported.....	41.5	
27545 --	Gravure Plates and Cylinders.....	33.7	30.9
27545 71	Gravure plates and cylinders.....	33.7	30.9
27540 00	Commercial printing, gravure, n.s.k., for companies with 10 employees or more.....	32.1	(NA)
27540 02	Commercial printing, gravure, n.s.k., for companies with less than 10 employees.....	(NA)	(NA)
2761- --	MANIFOLD BUSINESS FORMS, TOTAL.....	1,381.9	895.8
27612 --	Unit Set Forms.....	514.2	347.4
	Unit set forms, loose or bound (all carbonless, carbonized, or carbon interleaved forms with an original and one or more copies, with or without stub), including food and beverage checks, multiple-part tickets, etc.:		
	Stock, including imprinted:		
27612 13	One-time carbon.....	46.7	58.9
27612 15	Carbonless.....	8.4	
	Custom printed:		
27612 53	One-time carbon.....	335.3	250.1
27612 55	Carbonless.....	75.7	
27612 61	Tabulating card sets (any combination of one or more cards assembled and joined with any number of sheets, with or without carbon, held together by a common perforated stub, not in continued style).....	40.8	36.9
27612 00	Unit set forms, n.s.k.....	7.3	1.5
27613 --	Sales and Other Manifold Books.....	51.5	44.2
	Sales and other manifold books, including food and beverage checks and padded forms that may be used for multiple writing, but excluding blank or ruled padded forms:		
27613 21	Stock.....	9.5	9.5
27613 41	Custom printed.....	40.6	34.7
27613 00	Sales and other manifold books, n.s.k.....	1.4	-
27615 --	Custom Continuous Forms With or Without Carbon, Marginally Punched or Not Marginally Punched.....	553.6	317.3
	Custom printed:		
27615 14	One part.....	99.6	249.3
	Multiple parts:		
27615 17	One-time carbon.....	341.8	
27615 18	Carbonless.....	43.0	
	Custom tabulating cards (tabulating cards in continuous form, with or without a medial strip between cards, with or without a slide voucher, or top or bottom voucher):		
27615 23	One part.....	13.6	119.4
27615 27	Multiple parts.....	9.8	
27615 31	Custom fanfold (multiple-copy form of two or more parts in which the parts are hinged or hinged and joined at the sides, including any combined form in which 50 percent or more of the parts are so hinged).....	17.4	121.8
27615 51	Custom autographic register (any form of any number of parts in continuous folded packs sold for use in autographic register machine).....	22.9	124.1
27615 00	Custom continuous forms with or without carbon, marginally punched or not marginally punched, n.s.k.....	5.5	2.7

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Receipts by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
2761- --	MANIFOLD BUSINESS FORMS--Continued		
27617 --	Stock Continuous Forms.....	204.9	162.9
	Stock shelf forms:		
27617 61	One part.....	50.3	81.7
	Multiple parts:		
27617 63	One-time carbon.....	114.4	
27617 65	Carbonless.....	4.3	
	Stock format forms, shelf-type stock forms specially manufactured to supply such additional features as fastening, file hole punching, perforation, ink colors, paper color or sequence, and/or number of parts, but which are not further identified by customer:		
27617 71	One part.....	4.8	81.2
	Multiple parts:		
27617 73	One-time carbon.....	20.5	
27617 75	Carbonless.....	4.5	
27617 79	All other stock forms, including stock tabulating cards, fanfold, and autographic register.....	2.8	(¹)
27617 00	Stock continuous forms, n.s.k.....	3.3	-
27610 00	Manifold business forms, n.s.k., for companies with 10 employees or more. (See note.).....	47.6	18.7
27610 02	Manifold business forms, n.s.k., for companies with less than 10 employees. (See note.).....	10.1	5.3

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹For continuous tabulating cards, fanfold, and autographic register forms, no distinction was made in 1967 as to whether or not the form was "custom" or "stock." While all data are included under "custom" for 1967, a portion would be "stock."

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
MAGAZINE AND PERIODICAL PRINTING, LETTER-PRESS (27511)			MAGAZINE AND PERIODICAL PRINTING, LETTER-PRESS (27511)--Continued		
United States.....	424.3	512.7	South Region--Continued		
Northeast Region.....	73.4	150.9	West South Central Division.....	11.4	10.3
New England Division.....	19.5	39.5	Oklahoma.....	BB	(NA)
New Hampshire.....	3.3	5.6	Texas.....	8.8	9.2
Massachusetts.....	4.1	5.4	West Region.....	14.4	21.2
Connecticut.....	EE	27.0	Mountain Division.....	1.9	1.7
Middle Atlantic Division.....	53.9	111.5	Colorado.....	1.6	1.0
New York.....	31.9	59.4	Pacific Division.....	12.4	19.5
New Jersey.....	4.5	9.6	California.....	12.2	18.4
Pennsylvania.....	17.5	42.5			
North Central Region.....	277.6	254.7	LABELS AND WRAPPERS PRINTING (LETTERPRESS) (27512)		
East North Central Division.....	263.2	238.4	United States.....	501.9	390.2
Ohio.....	GG	GG	Northeast Region.....	139.6	135.6
Indiana.....	EE	12.7	New England Division.....	15.5	14.7
Illinois.....	135.8	134.2	Massachusetts.....	12.3	11.4
Michigan.....	4.1	2.3	Rhode Island.....	1.6	2.8
Wisconsin.....	5.6	CC	Middle Atlantic Division.....	124.1	120.9
West North Central Division.....	14.4	16.4	New York.....	40.7	58.2
Minnesota.....	2.0	4.4	New Jersey.....	28.8	25.0
Missouri.....	7.4	7.1	Pennsylvania.....	54.5	37.8
Kansas.....	4.3	3.6			
South Region.....	58.9	85.9	North Central Region.....	187.6	146.7
South Atlantic Division.....	20.3	43.1	East North Central Division.....	161.5	126.5
Maryland.....	15.8	12.9	Ohio.....	53.7	43.8
Virginia.....	2.2	6.1	Indiana.....	4.0	5.0
East South Central Division.....	27.2	32.5	Illinois.....	48.3	45.1
Kentucky.....	9.2	EE	Michigan.....	12.8	10.0
Tennessee.....	EE	13.4	Wisconsin.....	42.6	22.5
Alabama.....	CC	CC			

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
LABELS AND WRAPPERS PRINTING (LETTER-PRESS) (27512)--Continued			FINANCIAL AND LEGAL PRINTING (LETTER-PRESS) (27514)--Continued		
North Central Region--Continued			North Central Region.....	36.0	36.5
West North Central Division.....	26.1	20.2	East North Central Division.....	27.3	25.7
Minnesota.....	8.5	6.9	Ohio.....	9.0	3.3
Missouri.....	5.6	5.6	Indiana.....	1.9	3.6
South Dakota.....	AA	(NA)	Illinois.....	12.7	13.8
Nebraska.....	CC	CC	Michigan.....	3.4	3.5
Kansas.....	2.4	(NA)	West North Central Division.....	8.6	10.8
South Region.....	94.0	56.1	Minnesota.....	1.4	(NA)
South Atlantic Division.....	61.2	41.8	Missouri.....	2.3	5.1
Maryland.....	2.4	2.4	Kansas.....	3.9	1.2
North Carolina.....	15.9	13.6	South Region.....	45.1	33.1
South Carolina.....	6.7	BB	South Atlantic Division.....	31.9	19.2
Georgia.....	29.7	19.3	Maryland.....	4.5	5.1
Florida.....	5.8	1.9	Virginia.....	2.0	2.2
East South Central Division.....	14.5	8.5	North Carolina.....	BB	2.6
Tennessee.....	7.0	4.0	South Carolina.....	BB	(NA)
Alabama.....	CC	BB	Georgia.....	10.3	1.7
West South Central Division.....	18.3	5.8	Florida.....	8.8	5.1
Louisiana.....	BB	(NA)	East South Central Division.....	5.5	4.7
Texas.....	15.1	4.1	Kentucky.....	1.7	1.8
West Region.....	80.7	51.8	Tennessee.....	2.5	1.6
Mountain Division.....	3.5	1.6	West South Central Division.....	7.8	9.1
Colorado.....	2.8	1.5	Louisiana.....	AA	1.2
Pacific Division.....	77.2	50.2	Texas.....	5.4	6.7
Washington.....	7.4	5.1	West Region.....	34.6	17.9
California.....	69.4	43.0	Mountain Division.....	EE	5.9
CATALOGS AND DIRECTORIES PRINTING (LETTER-PRESS) (27513)			Colorado.....	CC	2.7
United States.....	134.3	171.3	Arizona.....	BB	1.1
Northeast Region.....	29.1	46.8	Utah.....	CC	2.0
New England Division.....	3.7	7.2	Nevada.....	BB	(NA)
New Hampshire.....	AA	AA	Pacific Division.....	EE	12.0
Massachusetts.....	1.4	4.0	California.....	16.6	10.5
Middle Atlantic Division.....	25.4	39.6	ADVERTISING PRINTING (LETTERPRESS) (27515)		
New York.....	4.2	10.1	United States.....	268.7	345.7
New Jersey.....	EE	FF	Northeast Region.....	130.9	177.7
Pennsylvania.....	BB	CC	New England Division.....	41.2	41.5
North Central Region.....	41.5	68.7	Maine.....	BB	(NA)
East North Central Division.....	33.2	58.6	Vermont.....	1.9	(NA)
Ohio.....	1.3	5.3	Massachusetts.....	10.9	15.6
Illinois.....	FF	44.0	Rhode Island.....	2.6	3.2
Michigan.....	CC	2.6	Connecticut.....	23.5	20.3
West North Central Division.....	8.3	10.1	Middle Atlantic Division.....	89.7	136.2
Minnesota.....	CC	4.3	New York.....	51.6	100.7
Missouri.....	1.6	2.5	New Jersey.....	25.4	12.2
South Region.....	30.6	27.4	Pennsylvania.....	12.7	23.4
South Atlantic Division.....	EE	11.6	North Central Region.....	69.5	98.6
Georgia.....	CC	5.9	East North Central Division.....	54.5	77.5
East South Central Division.....	8.3	6.9	Ohio.....	12.4	16.9
Kentucky.....	1.0	(NA)	Indiana.....	8.6	7.0
Tennessee.....	CC	5.1	Illinois.....	22.6	39.0
West South Central Division.....	EE	8.9	Michigan.....	7.2	10.8
Texas.....	EE	7.5	Wisconsin.....	3.7	3.8
West Region.....	33.1	28.4	West North Central Division.....	15.0	21.1
Pacific Division.....	FF	25.9	Minnesota.....	4.4	7.4
California.....	FF	24.6	Iowa.....	1.6	4.3
FINANCIAL AND LEGAL PRINTING (LETTER-PRESS) (27514)			Missouri.....	5.2	6.3
United States.....	190.1	152.9	Kansas.....	2.5	1.5
Northeast Region.....	74.4	65.4	South Region.....	43.9	43.6
New England Division.....	16.5	12.3	South Atlantic Division.....	26.2	24.3
Massachusetts.....	12.8	9.6	Maryland.....	5.9	5.6
Connecticut.....	1.8	1.8	Virginia.....	4.9	2.7
Middle Atlantic Division.....	57.9	52.9	North Carolina.....	1.1	2.4
New York.....	42.6	40.3	Georgia.....	7.7	6.3
New Jersey.....	8.0	4.9	Florida.....	5.0	3.3
Pennsylvania.....	7.3	7.7	East South Central Division.....	6.2	7.6
			Kentucky.....	2.0	1.9
			Tennessee.....	2.8	2.9
			West South Central Division.....	11.4	11.7
			Texas.....	9.1	8.7

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
ADVERTISING PRINTING (LETTERPRESS) (27515)--Con.			SCREEN PROCESS PRINTING, EXCEPT TEXTILES (27519)--Continued		
West Region.....	24.4	25.8	Northeast Region--Continued		
Mountain Division.....	6.1	3.9	Middle Atlantic Division.....	33.7	19.0
Colorado.....	1.0	1.2	New York.....	14.9	7.6
New Mexico.....	1.8	(NA)	New Jersey.....	11.5	6.9
Arizona.....	1.7	1.5	Pennsylvania.....	7.3	4.5
Pacific Division.....	18.3	21.9	North Central Region.....	79.5	43.5
Washington.....	1.8	2.3	East North Central Division.....	63.8	32.3
California.....	15.8	18.1	Ohio.....	12.1	5.7
			Indiana.....	4.8	1.3
OTHER GENERAL JOB PRINTING (LETTERPRESS) (27516)			Illinois.....	29.9	15.5
United States.....	522.7	527.7	Michigan.....	7.3	5.7
Northeast Region.....	161.4	177.3	Wisconsin.....	9.8	4.0
New England Division.....	38.9	41.1	West North Central Division.....	15.6	11.2
New Hampshire.....	BB	(NA)	Minnesota.....	5.9	5.4
Vermont.....	1.2	1.1	Missouri.....	3.1	BB
Massachusetts.....	24.8	29.3	Kansas.....	CC	BB
Rhode Island.....	AA	1.5	South Region.....	27.2	11.9
Connecticut.....	7.1	7.4	South Atlantic Division.....	11.1	5.1
Middle Atlantic Division.....	122.5	136.1	District of Columbia.....	1.2	(NA)
New York.....	69.9	82.9	Georgia.....	3.5	AA
New Jersey.....	20.2	23.5	Florida.....	4.7	2.1
Pennsylvania.....	32.5	29.7	East South Central Division.....	5.1	1.0
North Central Region.....	205.4	189.7	Tennessee.....	4.1	(NA)
East North Central Division.....	161.8	143.2	West South Central Division.....	11.1	5.8
Ohio.....	33.3	32.3	Louisiana.....	AA	(NA)
Indiana.....	12.3	8.9	Oklahoma.....	3.8	BB
Illinois.....	86.8	69.9	Texas.....	5.2	3.2
Michigan.....	17.6	18.8	West Region.....	25.9	13.6
Wisconsin.....	11.9	13.3	Mountain Division.....	3.1	(NA)
West North Central Division.....	43.6	46.5	Colorado.....	1.6	(NA)
Minnesota.....	5.6	17.5	Pacific Division.....	22.8	EE
Iowa.....	16.9	9.2	Oregon.....	AA	(NA)
Missouri.....	14.9	13.8	California.....	21.1	11.6
Nebraska.....	2.9	3.1			
Kansas.....	2.3	2.0	MAGAZINE AND PERIODICAL PRINTING (LITHOGRAPHIC) (27521)		
South Region.....	92.2	94.2	United States.....	631.6	296.1
South Atlantic Division.....	51.4	44.4	Northeast Region.....	135.4	69.2
Maryland.....	7.8	5.5	New England Division.....	37.7	20.2
Virginia.....	11.4	13.6	New Hampshire.....	EE	CC
West Virginia.....	3.9	(NA)	Vermont.....	4.9	(NA)
North Carolina.....	3.6	3.9	Massachusetts.....	5.9	4.7
South Carolina.....	3.1	1.6	Connecticut.....	11.4	5.2
Georgia.....	13.1	6.7	Middle Atlantic Division.....	97.7	49.0
Florida.....	7.3	7.5	New York.....	43.5	22.6
East South Central Division.....	14.7	17.5	New Jersey.....	14.2	2.2
Kentucky.....	4.3	4.3	Pennsylvania.....	40.0	24.2
Tennessee.....	5.4	7.5	North Central Region.....	302.1	135.4
Alabama.....	2.9	4.0	East North Central Division.....	240.0	108.7
Mississippi.....	2.2	1.7	Ohio.....	60.0	32.0
West South Central Division.....	26.1	32.3	Indiana.....	10.5	3.4
Arkansas.....	6.1	5.3	Illinois.....	107.1	45.8
Louisiana.....	5.9	4.3	Michigan.....	13.3	9.3
Oklahoma.....	1.9	5.0	Wisconsin.....	49.1	18.3
Texas.....	12.2	17.8	West North Central Division.....	62.2	26.7
West Region.....	63.7	66.4	Minnesota.....	31.3	12.5
Mountain Division.....	9.4	9.6	Iowa.....	1.0	(NA)
Wyoming.....	1.1	(NA)	Missouri.....	11.0	8.2
Colorado.....	2.9	4.5	Nebraska.....	EE	3.7
Arizona.....	1.9	2.1	Kansas.....	6.5	1.5
Utah.....	1.2	(NA)	South Region.....	141.7	60.4
Pacific Division.....	54.3	56.8	South Atlantic Division.....	78.0	43.9
Washington.....	2.6	4.4	Maryland.....	27.9	5.4
Oregon.....	2.7	2.9	District of Columbia.....	9.9	15.1
California.....	48.4	48.7	Virginia.....	5.5	2.5
			North Carolina.....	1.8	(NA)
SCREEN PROCESS PRINTING, EXCEPT TEXTILES (27519)			Georgia.....	15.5	7.2
United States.....	172.1	93.3	Florida.....	16.8	11.9
Northeast Region.....	39.6	24.3	East South Central Division.....	34.1	11.2
New England Division.....	5.9	5.3	Kentucky.....	20.0	BB
Massachusetts.....	4.1	3.0	Tennessee.....	11.4	6.2
Connecticut.....	AA	BB	Alabama.....	2.6	AA

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
MAGAZINE AND PERIODICAL PRINTING (LITHOGRAPHIC) (27521)--Continued			CATALOGS AND DIRECTORIES PRINTINGS (LITHOGRAPHIC) (27523)--Continued		
South Region--Continued			North Central Region--Continued		
West South Central Division.....	29.5	5.3	West North Central Division.....	48.3	21.2
Arkansas.....	2.3	(NA)	Minnesota.....	24.6	10.8
Louisiana.....	1.1	(NA)	Iowa.....	4.0	2.6
Oklahoma.....	9.2	(NA)	Missouri.....	13.4	5.2
Texas.....	16.9	4.0	Nebraska.....	1.7	(NA)
			Kansas.....	4.0	1.4
West Region.....	52.4	31.1	South Region.....	69.6	31.9
Mountain Division.....	10.9	4.3	South Atlantic Division.....	41.2	20.5
Colorado.....	3.0	1.8	Maryland.....	4.7	2.9
Arizona.....	3.5	AA	District of Columbia.....	2.2	2.3
Utah.....	BB	(NA)	North Carolina.....	4.5	1.5
Pacific Division.....	41.5	26.8	Georgia.....	15.4	6.8
Washington.....	3.0	3.5	Florida.....	13.0	4.0
California.....	37.1	21.2	East South Central Division.....	12.7	4.9
LABELS AND WRAPPERS PRINTING (LITHOGRAPHIC) (27522)			Kentucky.....	3.2	1.4
United States.....	280.3	186.9	Tennessee.....	8.0	3.4
Northeast Region.....	86.1	65.7	Alabama.....	1.5	(NA)
New England Division.....	4.4	8.2	West South Central Division.....	15.7	6.5
Massachusetts.....	3.4	7.6	Arkansas.....	1.2	(NA)
Middle Atlantic Division.....	81.7	57.5	Louisiana.....	BB	(NA)
New York.....	52.2	44.4	Oklahoma.....	BB	1.7
New Jersey.....	17.2	5.6	Texas.....	8.7	4.2
Pennsylvania.....	12.3	7.5	West Region.....	46.0	27.7
North Central Region.....	115.8	65.9	Mountain Division.....	9.9	7.2
East North Central Division.....	92.4	49.9	Colorado.....	1.6	4.4
Ohio.....	8.6	9.5	Arizona.....	CC	2.1
Indiana.....	2.0	1.1	Utah.....	AA	(NA)
Illinois.....	56.3	30.7	Pacific Division.....	36.1	20.5
Michigan.....	9.0	5.1	Oregon.....	6.9	3.5
Wisconsin.....	16.6	3.5	California.....	28.0	14.7
West North Central Division.....	23.4	16.1	FINANCIAL AND LEGAL PRINTING (LITHOGRAPHIC) (27524)		
Minnesota.....	5.3	5.9	United States.....	271.1	137.7
Missouri.....	9.1	6.0	Northeast Region.....	111.2	50.5
Nebraska.....	CC	BB	New England Division.....	21.0	14.9
South Region.....	39.5	21.9	Massachusetts.....	15.8	11.1
South Atlantic Division.....	27.6	15.4	Connecticut.....	3.0	2.2
Maryland.....	10.9	CC	Middle Atlantic Division.....	90.3	35.6
Virginia.....	BB	BB	New York.....	75.3	25.6
West Virginia.....	BB	BB	New Jersey.....	2.6	1.7
North Carolina.....	BB	1.3	Pennsylvania.....	12.4	8.3
Georgia.....	4.0	1.3	North Central Region.....	66.0	41.5
East South Central Division.....	6.8	3.1	East North Central Division.....	54.1	31.7
Kentucky.....	2.7	1.2	Ohio.....	8.9	3.2
Tennessee.....	3.7	1.8	Indiana.....	4.4	2.9
West South Central Division.....	5.1	3.5	Illinois.....	33.8	19.3
Texas.....	4.8	1.8	Michigan.....	3.7	4.5
West Region.....	38.9	33.4	Wisconsin.....	3.2	1.8
Pacific Division.....	38.5	32.7	West North Central Division.....	11.9	(NA)
California.....	36.3	29.9	Minnesota.....	3.5	(NA)
Hawaii.....	AA	AA	Missouri.....	2.6	2.9
CATALOGS AND DIRECTORIES PRINTINGS (LITHOGRAPHIC) (27523)			Nebraska.....	1.1	(NA)
United States.....	464.1	267.7	Kansas.....		
Northeast Region.....	112.7	71.1	South Region.....	49.3	26.7
New England Division.....	40.3	24.5	South Atlantic Division.....	18.0	11.1
Massachusetts.....	29.2	17.1	Maryland.....	5.6	4.0
Rhode Island.....	1.5	(NA)	District of Columbia.....	1.6	(NA)
Connecticut.....	8.7	3.7	North Carolina.....	1.7	(NA)
Middle Atlantic Division.....	72.4	46.6	Georgia.....	2.4	1.9
New York.....	41.4	24.6	Florida.....	4.5	2.0
New Jersey.....	7.6	7.1	East South Central Division.....	10.6	6.3
Pennsylvania.....	23.4	14.9	Kentucky.....	3.4	2.9
North Central Region.....	235.8	137.0	Tennessee.....	4.0	1.8
East North Central Division.....	187.5	115.8	Alabama.....	2.3	1.4
Ohio.....	28.3	28.1	West South Central Division.....	20.7	9.3
Indiana.....	23.4	13.0	Louisiana.....	1.2	(NA)
Illinois.....	82.2	42.9	Oklahoma.....	1.4	(NA)
Michigan.....	29.9	17.7	Texas.....	17.6	8.6
Wisconsin.....	23.8	14.0	West Region.....	44.6	19.0
			Mountain Division.....	5.0	7.2
			Colorado.....	3.5	2.7

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
FINANCIAL AND LEGAL PRINTING (LITHOGRAPHIC) (27524)--Continued			OTHER GENERAL JOB PRINTING (LITHO- GRAPHIC) (27526)		
West Region--Continued			United States.....	967.7	705.6
Pacific Division.....	39.6	11.8	Northeast Region.....	312.0	172.8
Washington.....	1.2	1.1	New England Division.....	55.4	28.4
Oregon.....	1.4	(NA)	Maine.....	1.9	(NA)
California.....	35.8	10.0	New Hampshire.....	2.7	(NA)
Hawaii.....	1.2	(NA)	Vermont.....	1.4	(NA)
ADVERTISING PRINTING (LITHOGRAPHIC) (27525)			Massachusetts.....	27.1	11.9
United States.....	1,553.9	967.6	Rhode Island.....	6.0	1.6
Northeast Region.....	513.7	357.7	Connecticut.....	16.4	13.5
New England Division.....	95.3	47.3	Middle Atlantic Division.....	256.6	144.4
Maine.....	1.7	(NA)	New York.....	134.7	71.3
New Hampshire.....	1.3	1.2	New Jersey.....	36.1	45.3
Vermont.....	3.1	(NA)	Pennsylvania.....	85.8	27.7
Massachusetts.....	38.3	27.1	North Central Region.....	338.4	264.3
Rhode Island.....	5.3	2.4	East North Central Division.....	243.4	174.4
Connecticut.....	45.7	15.6	Ohio.....	83.2	47.0
Middle Atlantic Division.....	418.4	310.4	Indiana.....	17.3	8.0
New York.....	261.3	212.3	Illinois.....	94.6	68.0
New Jersey.....	66.8	39.9	Michigan.....	26.2	18.1
Pennsylvania.....	90.3	58.3	Wisconsin.....	22.1	33.2
North Central Region.....	642.2	401.3	West North Central Division.....	95.1	89.9
East North Central Division.....	485.3	308.3	Minnesota.....	29.4	26.0
Ohio.....	97.9	67.7	Iowa.....	12.2	5.6
Indiana.....	36.2	19.9	Missouri.....	37.9	45.1
Illinois.....	231.7	134.4	North Dakota.....	1.1	(NA)
Michigan.....	68.8	47.7	Nebraska.....	5.2	EE
Wisconsin.....	50.7	38.6	Kansas.....	8.3	4.1
West North Central Division.....	156.9	93.0	South Region.....	195.0	173.9
Minnesota.....	68.0	41.2	South Atlantic Division.....	108.1	108.4
Iowa.....	10.0	5.0	Maryland.....	20.7	46.9
Missouri.....	56.5	33.1	District of Columbia.....	6.3	10.3
South Dakota.....	1.8	(NA)	Virginia.....	14.4	(NA)
Nebraska.....	6.9	3.8	West Virginia.....	6.8	(NA)
Kansas.....	12.8	8.7	North Carolina.....	9.9	3.5
South Region.....	212.4	103.3	South Carolina.....	6.9	1.3
South Atlantic Division.....	117.2	59.0	Georgia.....	27.6	12.3
Delaware.....	1.8	1.4	Florida.....	14.7	25.5
Maryland.....	32.3	9.6	East South Central Division.....	36.2	41.2
District of Columbia.....	11.6	10.6	Kentucky.....	13.9	BB
Virginia.....	11.3	6.2	Tennessee.....	15.2	3.6
West Virginia.....	1.8	(NA)	Alabama.....	5.2	FF
North Carolina.....	8.7	4.2	Mississippi.....	2.0	(NA)
South Carolina.....	2.6	(NA)	West South Central Division.....	50.6	24.3
Georgia.....	24.8	16.8	Arkansas.....	4.7	(NA)
Florida.....	22.4	9.0	Louisiana.....	4.7	2.3
East South Central Division.....	28.8	16.7	Oklahoma.....	5.6	5.5
Kentucky.....	8.6	6.2	Texas.....	35.5	15.5
Tennessee.....	14.2	9.2	West Region.....	122.4	94.6
Alabama.....	5.1	1.1	Mountain Division.....	20.2	7.9
West South Central Division.....	66.3	27.6	Idaho.....	2.3	(NA)
Arkansas.....	4.2	2.0	Colorado.....	7.3	3.2
Louisiana.....	7.5	3.3	New Mexico.....	1.9	(NA)
Oklahoma.....	5.2	1.9	Arizona.....	4.9	1.3
Texas.....	49.4	20.4	Utah.....	1.9	1.4
West Region.....	185.6	105.3	Pacific Division.....	102.2	86.7
Mountain Division.....	15.1	7.2	Washington.....	6.9	4.0
Colorado.....	6.1	3.7	Oregon.....	5.4	2.2
New Mexico.....	1.5	(NA)	California.....	83.9	79.3
Arizona.....	2.7	1.5	Hawaii.....	CC	AA
Utah.....	3.2	1.0	PUBLICATION PRINTING, GRAVURE (27541)		
Pacific Division.....	170.4	98.1	United States.....	355.7	(NA)
Washington.....	13.3	6.5	Northeast Region.....	89.8	(NA)
Oregon.....	13.6	7.8	New England Division.....	FF	(NA)
California.....	141.2	83.3	New Hampshire.....	BB	(NA)
Hawaii.....	AA	(NA)	Rhode Island.....	EE	(NA)
			Connecticut.....	AA	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
PUBLICATION PRINTING, GRAVURE (27541)--Continued			ADVERTISING PRINTING, GRAVURE (27543)--Continued		
Northeast Region--Continued			South Region.....	22.8	(NA)
Middle Atlantic Division.....	GG	(NA)	South Atlantic Division.....	EE	(NA)
New York.....	2.1	(NA)	Maryland.....	EE	(NA)
New Jersey.....	EE	(NA)	East South Central Division.....	CC	(NA)
Pennsylvania.....	GG	(NA)	Kentucky.....	AA	(NA)
North Central Region.....	202.7	(NA)	Tennessee.....	CC	(NA)
East North Central Division.....	202.3	(NA)	West South Central Division.....	AA	(NA)
Ohio.....	CC	(NA)	Texas.....	AA	(NA)
Indiana.....	FF	(NA)	West Region.....	7.5	(NA)
Illinois.....	144.5	(NA)	Pacific Division.....	7.3	(NA)
Michigan.....	BB	(NA)	California.....	7.3	(NA)
South Region.....	40.5	(NA)	OTHER COMMERCIAL PRINTING, GRAVURE (27544)		
South Atlantic Division.....	CC	(NA)	United States.....	46.8	(NA)
Maryland.....	BB	(NA)	Northeast Region.....	BB	(NA)
Virginia.....	CC	(NA)	Middle Atlantic Division.....	1.9	(NA)
East South Central Division.....	FF	(NA)	North Central Region.....	17.8	(NA)
Kentucky.....	FF	(NA)	East North Central Division.....	CC	(NA)
West Region.....	22.7	(NA)	Indiana.....	AA	(NA)
Mountain Division.....	BB	(NA)	Illinois.....	3.4	(NA)
Colorado.....	AA	(NA)	West North Central Division.....	EE	(NA)
Pacific Division.....	FF	(NA)	Missouri.....	EE	(NA)
California.....	FF	(NA)	South Region.....	EE	(NA)
LABELS, WRAPPERS, WRAP PRINTING, GRAVURE (27542)			South Atlantic Division.....	EE	(NA)
United States.....	189.9	(NA)	Virginia.....	EE	(NA)
Northeast Region.....	26.5	(NA)	West South Central Division.....	BB	(NA)
New England Division.....	5.8	(NA)	Oklahoma.....	BB	(NA)
Massachusetts.....	BB	(NA)	West Region.....	6.9	(NA)
Rhode Island.....	AA	(NA)	Mountain Division.....	BB	(NA)
Middle Atlantic Division.....	20.7	(NA)	Colorado.....	BB	(NA)
New York.....	4.6	(NA)	Pacific Division.....	BB	(NA)
New Jersey.....	BB	(NA)	California.....	BB	(NA)
Pennsylvania.....	EE	(NA)	GRAVURE PLATES AND CYLINDERS (27545)		
North Central Region.....	88.4	(NA)	United States.....	33.7	(NA)
East North Central Division.....	GG	(NA)	Northeast Region.....	15.9	(NA)
Ohio.....	FF	(NA)	New England Division.....	BB	(NA)
Indiana.....	CC	(NA)	Massachusetts.....	AA	(NA)
Illinois.....	EE	(NA)	Connecticut.....	BB	(NA)
Michigan.....	4.6	(NA)	Middle Atlantic Division.....	EE	(NA)
Wisconsin.....	13.8	(NA)	New York.....	CC	(NA)
West North Central Division.....	EE	(NA)	New Jersey.....	AA	(NA)
Minnesota.....	BB	(NA)	Pennsylvania.....	4.8	(NA)
Missouri.....	EE	(NA)	North Central Region.....	11.0	(NA)
South Region.....	71.9	(NA)	East North Central Division.....	CC	(NA)
South Atlantic Division.....	GG	(NA)	Ohio.....	3.6	(NA)
Virginia.....	FF	(NA)	Illinois.....	BB	(NA)
West Virginia.....	AA	(NA)	Wisconsin.....	BB	(NA)
North Carolina.....	34.5	(NA)	West North Central Division.....	AA	(NA)
East South Central Division.....	EE	(NA)	Missouri.....	AA	(NA)
Tennessee.....	EE	(NA)	South Region.....	CC	(NA)
West Region.....	3.1	(NA)	East South Central Division.....	BB	(NA)
Pacific Division.....	BB	(NA)	Kentucky.....	BB	(NA)
California.....	BB	(NA)	UNIT SET FORMS (27612)		
ADVERTISING PRINTING, GRAVURE (27543)			United States.....	514.2	347.4
United States.....	100.9	(NA)	Northeast Region.....	114.3	70.5
Northeast Region.....	34.1	(NA)	New England Division.....	26.2	16.3
New England Division.....	CC	(NA)	New Hampshire.....	BB	AA
Massachusetts.....	CC	(NA)	Vermont.....	AA	(NA)
Middle Atlantic Division.....	FF	(NA)	Massachusetts.....	7.1	5.1
New York.....	2.1	(NA)	Rhode Island.....	3.6	(NA)
New Jersey.....	EE	(NA)	Connecticut.....	11.6	8.4
Pennsylvania.....	7.9	(NA)	Middle Atlantic Division.....	88.2	54.2
North Central Region.....	36.4	(NA)	New York.....	32.6	28.9
East North Central Division.....	FF	(NA)	New Jersey.....	12.4	5.0
Ohio.....	7.1	(NA)	Pennsylvania.....	43.2	20.3
Indiana.....	EE	(NA)			
Illinois.....	11.1	(NA)			
Michigan.....	AA	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area:
1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
UNITS SET FORMS (27612)--Continued			CUSTOM FORMS WITH/WITHOUT CARBON, MARGIN PUNCHED (27615)		
North Central Region.....	168.4	131.2	United States.....	553.6	(NA)
East North Central Division.....	127.9	108.2	Northeast Region.....	139.7	(NA)
Ohio.....	40.9	39.0	New England Division.....	54.6	(NA)
Indiana.....	7.6	15.6	New Hampshire.....	EE	(NA)
Illinois.....	42.7	36.9	Vermont.....	EE	(NA)
Michigan.....	14.4	5.9	Massachusetts.....	5.5	(NA)
Wisconsin.....	22.3	10.8	Connecticut.....	15.3	(NA)
West North Central Division.....	40.4	23.0	Middle Atlantic Division.....	85.0	(NA)
Minnesota.....	4.3	5.1	New York.....	21.7	(NA)
Iowa.....	6.7	2.2	New Jersey.....	10.5	(NA)
Missouri.....	10.6	6.5	Pennsylvania.....	52.8	(NA)
Nebraska.....	5.4	3.5	North Central Region.....	180.9	(NA)
Kansas.....	13.0	5.7	East North Central Division.....	149.7	(NA)
South Region.....	140.2	86.4	Ohio.....	38.1	(NA)
South Atlantic Division.....	74.9	49.1	Indiana.....	21.7	(NA)
Delaware.....	AA	(NA)	Illinois.....	68.2	(NA)
Maryland.....	EE	EE	Michigan.....	12.6	(NA)
Virginia.....	5.1	4.4	Wisconsin.....	9.0	(NA)
West Virginia.....	EE	CC	West North Central Division.....	31.2	(NA)
North Carolina.....	13.9	7.8	Minnesota.....	4.6	(NA)
South Carolina.....	1.8	AA	Iowa.....	EE	(NA)
Georgia.....	4.8	3.0	Missouri.....	6.3	(NA)
Florida.....	9.9	5.4	Nebraska.....	2.5	(NA)
East South Central Division.....	16.9	9.6	Kansas.....	3.4	(NA)
Kentucky.....	1.7	(NA)	South Region.....	152.6	(NA)
Tennessee.....	6.3	BB	South Atlantic Division.....	60.4	(NA)
Alabama.....	8.8	5.3	Maryland.....	EE	(NA)
West South Central Division.....	48.4	27.7	District of Columbia.....	AA	(NA)
Arkansas.....	CC	5.4	Virginia.....	15.2	(NA)
Louisiana.....	BB	1.4	West Virginia.....	CC	(NA)
Oklahoma.....	6.0	2.8	North Carolina.....	2.1	(NA)
Texas.....	33.5	18.1	South Carolina.....	CC	(NA)
West Region.....	91.3	59.4	Georgia.....	3.3	(NA)
Mountain Division.....	17.1	4.6	Florida.....	6.2	(NA)
Colorado.....	BB	1.5	East South Central Division.....	18.2	(NA)
Arizona.....	2.1	1.4	Tennessee.....	AA	(NA)
Utah.....	11.1	1.0	Alabama.....	EE	(NA)
Pacific Division.....	74.2	54.8	West South Central Division.....	74.0	(NA)
Washington.....	3.7	2.4	Arkansas.....	EE	(NA)
Oregon.....	18.6	11.5	Louisiana.....	2.9	(NA)
California.....	51.7	40.7	Oklahoma.....	CC	(NA)
SALES AND OTHER MANIFOLD BOOKS (27613)			Texas.....	48.2	(NA)
United States.....	51.5	44.2	West Region.....	80.4	(NA)
Northeast Region.....	9.0	9.3	Mountain Division.....	8.8	(NA)
Middle Atlantic Division.....	8.2	7.9	Colorado.....	BB	(NA)
New York.....	5.5	CC	Arizona.....	2.8	(NA)
Pennsylvania.....	2.6	AA	Utah.....	BB	(NA)
North Central Region.....	22.0	15.2	Pacific Division.....	71.7	(NA)
East North Central Division.....	13.2	9.2	Washington.....	BB	(NA)
Ohio.....	CC	CC	Oregon.....	CC	(NA)
Illinois.....	3.4	1.9	California.....	63.0	(NA)
Michigan.....	BB	BB	STOCK CONTINUOUS FORMS (27617)		
West North Central Division.....	8.7	6.0	United States.....	204.9	(NA)
Minnesota.....	AA	(NA)	Northeast Region.....	65.2	(NA)
Nebraska.....	AA	BB	New England Division.....	14.1	(NA)
Kansas.....	BB	BB	New Hampshire.....	AA	(NA)
South Region.....	13.9	13.2	Vermont.....	AA	(NA)
South Atlantic Division.....	5.8	5.3	Massachusetts.....	2.2	(NA)
Maryland.....	BB	BB	Connecticut.....	8.2	(NA)
Virginia.....	AA	AA	Middle Atlantic Division.....	51.1	(NA)
East South Central Division.....	BB	BB	New York.....	5.7	(NA)
Kentucky.....	BB	BB	New Jersey.....	BB	(NA)
West South Central Division.....	BB	BB	Pennsylvania.....	FF	(NA)
Oklahoma.....	AA	(NA)			
Texas.....	BB	BB			
West Region.....	6.7	6.5			
Pacific Division.....	6.3	(D)			
California.....	CC	C.1			

See footnotes at end of table.

TABLE 6B. Product Classes—Value of Receipts by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of receipts (million dollars)		Product class and geographic area	Value of receipts (million dollars)	
	1972	1967		1972	1967
STOCK CONTINUOUS FORMS (27617)--Continued			STOCK CONTINUOUS FORMS (27617)--Continued		
North Central Region.....	56.0	(NA)	South Region--Continued		
East North Central Division.....	49.8	(NA)	South Atlantic Division--Continued		
Ohio.....	14.3	(NA)	West Virginia.....	CC	(NA)
Illinois.....	10.0	(NA)	Florida.....	AA	(NA)
Michigan.....	EE	(NA)	East South Central Division.....	CC	(NA)
Wisconsin.....	EE	(NA)	Alabama.....	CC	(NA)
West North Central Division.....	6.2	(NA)	West South Central Division.....	18.1	(NA)
Minnesota.....	1.4	(NA)	Arkansas.....	AA	(NA)
Iowa.....	BB	(NA)	Oklahoma.....	CC	(NA)
Missouri.....	AA	(NA)	Texas.....	10.3	
South Region.....	50.3	(NA)	West Region.....	33.4	(NA)
South Atlantic Division.....	24.6	(NA)	Pacific Division.....	33.3	(NA)
Maryland.....	8.3	(NA)	California.....	32.7	(NA)
Virginia.....	5.3	(NA)			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 6C. Product Classes—Value of Receipts by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2751	Commercial printing, letterpress ²	3,404.8	3,681.1	3,578.0	3,597.0	3,409.9	3,265.0	2,711.4	2,428.3
27511	Magazine and periodical printing, letterpress.....	424.3	506.2	547.0	540.3	520.4	512.7	574.0	426.3
27512	Labels and wrappers printing, letterpress.....	501.9	399.0	405.6	400.5	395.9	390.2	296.9	263.1
27513	Catalogs and directories printing, letterpress.....	134.3	165.3	167.3	176.5	187.6	171.3	148.7	139.9
27514	Financial and legal printing, letterpress.....	190.1	201.5	191.2	216.6	190.2	152.9	111.3	76.8
27515	Advertising printing, letterpress.....	268.7	364.2	385.3	399.3	364.3	345.7	276.4	348.7
27516	Other general job printing, letterpress.....	522.7	824.8	749.1	675.4	624.4	527.7	717.0	643.2
27519	Screen process printing, except textiles.....	172.1	141.1	133.3	98.7	97.1	93.3	69.2	53.2
27510	Commercial printing, letterpress, n.s.k.....	1,190.7	447.1	431.2	543.1	550.0	640.8	213.1	231.6
2752	Commercial printing, lithographic ³	4,919.6	4,415.5	4,261.5	3,781.0	3,393.2	3,132.9	2,025.2	1,366.2
27521	Magazine and periodical printing, lithographic.....	631.6	445.8	419.4	348.7	324.4	296.1	138.6	66.2
27522	Labels and wrappers printing, lithographic.....	280.3	252.8	255.6	242.6	203.2	186.9	147.3	123.4
27523	Catalogs and directories printing, lithographic.....	464.1	347.1	322.4	329.5	281.5	267.7	165.3	75.6
27524	Financial and legal printing, lithographic.....	271.1	171.3	178.0	171.9	150.5	137.7	108.9	50.0
27525	Advertising printing, lithographic.....	1,553.9	1,247.8	1,242.3	1,217.4	1,082.6	967.6	721.6	577.3
27526	Other general job printing, lithographic.....	967.7	1,246.8	1,201.6	867.0	816.1	705.6	517.7	372.5
27520	Commercial printing, lithographic, n.s.k.....	750.9	457.2	401.0	372.4	343.4	420.1	96.3	33.2
27530	Engraving and plate printing (except photoengraving).....	205.0	226.0	230.4	239.8	191.2	151.3	111.2	93.7
2754	Commercial printing, gravure.....	759.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
27541	Publication printing, gravure.....	355.7	299.5	276.7	259.6	220.8	216.3	158.9	126.1
27542	Labels, wrappers, wrap printing, gravure.....	189.9	332.4	291.3	287.0	259.2	214.1	145.9	119.3
27543	Advertising printing, gravure.....	100.9							
27544	Other commercial printing, gravure.....	46.8							
27545	Gravure plates and cylinders.....	33.7	32.1						
27540	Commercial printing, gravure, n.s.k.....	32.1							
2761	Manifold business forms.....	1,381.9	1,242.3	1,199.1	1,113.5	990.6	895.8	598.4	374.0
27612	Unit set forms.....	514.2	471.6	447.9	422.0	372.2	347.4	258.0	159.6
27613	Sales and other manifold books.....	51.5	43.5	48.4	53.3	50.2	44.2	39.6	45.2
27615	Custom continuous forms.....	553.6	684.6	646.2	613.5	543.2	480.2	291.1	169.2
27617	Stock continuous forms.....	204.9							
27610	Manifold business forms, n.s.k.....	57.7	(42.6)	(56.6)	24.7	25.0	24.0	9.8	(X)

(X) Not applicable. (NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this class of product represent approximately 13 percent of the total 1967 receipts at the U.S. level.

³The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this class of product represent approximately 5 percent of the total 1967 receipts at the U.S. level.

TABLE 7. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972			
			Quantity	Delivered cost		
			(million dollars)			
INDUSTRY 2751.--COMMERCIAL PRINTING, LETTERPRESS						
	Materials, parts, and supplies, total.....		(X)	1,129.6		
262112	Newsprint.....		(X)	92.1		
	Coated papers:					
262136	Coated one side.....		}	(X)	112.3	
262138	Coated two sides.....					
262101	All other paper.....		(X)	153.8		
263105	Paperboard (excluding that used for shipping).....		(X)	10.6		
	Printing inks:					
289303	Letterpress, including news.....	Million lb.....	64.5	34.7		
289304	Lithographic.....	...do.....	(S)	6.4		
289309	Other including gravure, flexographic, and screen process.....	...do.....	(S)	15.1		
386151	Unexposed lithographic plates and metal for lithographic plates...		(X)	4.4		
386101	Light sensitive films and papers.....		(X)	4.8		
386181	Photographic developers and chemicals used in plate preparation...		(X)	2.4		
264140	Pressure sensitive base stock (self-adhesive): include all types paper, film, etc.....		(X)	48.7		
971000	Materials, n.s.k. ¹		(X)	453.9		
970099	All other materials and components, parts, containers, and supplies consumed; including metal type, etc.....		(X)	190.4		
INDUSTRY 2752.--COMMERCIAL PRINTING, LITHOGRAPHIC						
	Materials, parts, and supplies, total.....		(X)	1,631.3		
262112	Newsprint.....		(X)	92.6		
	Coated papers:					
262136	Coated one side.....		(X)	92.8		
262138	Coated two sides.....		(X)	263.7		
262101	All other paper.....		(X)	390.3		
263105	Paperboard (excluding that used for shipping).....		(X)	23.5		
264140	Pressure sensitive base stock (self-adhesive): include all types, paper, film, foil, etc.....		(X)	4.2		
	Printing inks:					
289303	Letterpress, including news.....	Million lb.....	(S)	7.6		
289304	Lithographic.....	...do.....	(S)	77.3		
289309	Other, including gravure, flexographic, and screen process.....	...do.....	(S)	4.7		
386151	Unexposed lithographic plates and metal for lithographic plates...		(X)	40.9		
386101	Light sensitive films and papers.....		(X)	28.6		
386181	Photographic developers and chemicals used in plate preparation...		(X)	11.9		
395500	One-time carbon paper; purchased or withdrawn from previous year's inventory by the printer.....	1,000 short tons.....	8.7	5.8		
262163	Carbonless paper.....	...do.....	8.4	7.8		
395500	One-time carbon paper, produced and consumed in this industry.....	...do.....	(S)	(X)		
971000	Materials, n.s.k. ¹		(X)	353.5		
970099	All other materials and components, parts, containers, and supplies consumed; including metal type, etc.....		(X)	226.1		
		Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 2753.--ENGRAVING AND PLATE PRINTING						
	Materials, parts, and supplies, total.....		(X)	41.1	(X)	32.3
262101	Paper, all types.....		(X)	14.2	(X)	10.9
263105	Paperboard (excluding that used for shipping).....		(X)	.1	(X)	(S)
289301	Printing inks.....	Million lb....	(S)	.7	(S)	(S)
970099	All other materials and components, parts, containers, and supplies consumed including metal type, etc.....		(X)	11.8	(X)	10.1
971000	Materials, n.s.k. ¹		(X)	14.3	(X)	11.5

See footnotes at end of table.

TABLE 7. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
			(million dollars)	
INDUSTRY 2754.--COMMERCIAL PRINTING, GRAVURE				
	Materials, parts, and supplies, total.....		(X)	303.6
262112	Newsprint.....		(X)	56.5
	Coated papers:			
262136	Coated one side.....		(X)	15.3
262138	Coated two sides.....		(X)	28.6
262101	All other paper.....		(X)	38.0
263105	Paperboard (excluding that used for shipping).....		(X)	8.5
	Printing inks:			
289311	Letterpress, including news.....	Million lb.....	8.0	4.2
289523	Lithographic.....	do.....	(S)	.7
289305	Other including gravure, flexographic, and screen process.....	do.....	246.9	51.7
386151	Unexposed lithographic plates and metal for lithographic plates...		(X)	.7
386101	Light sensitive films and papers.....		(X)	4.1
386181	Photographic developers and chemicals used in plate preparation...		(X)	1.3
349704	Foil and foil laminates.....		(X)	23.5
971000	Materials, n.s.k ¹		(X)	2.5
970099	All other materials and components, parts, containers, and supplies consumed; including metal type, etc.....		(X)	68.0
		Unit of measure	1972	1967
			Quantity	Delivered cost
				(million dollars)
			Quantity	Delivered cost
				(million dollars)
INDUSTRY 2761.--MANIFOLD BUSINESS FORMS				
	Materials, containers, and supplies, total.....		(X)	559.2
262112	Newsprint.....		(X)	2.5
	Coated papers:			
262136	Coated one side.....		(X)	7.0
262138	Coated two sides.....		(X)	12.3
262101	All other paper.....		(X)	291.7
263105	Paperboard.....		(X)	1.4
289301	Printing inks.....		(S)	6.0
262164	Carbonizing tissue stock for conversion by printer into one- time carbon paper.....	1,000 s. tons.	115.1	46.1
395500	One-time carbon paper, purchased or withdrawn from previous year's inventory by the printer.....	do.....	83.7	53.0
262163	Carbonless paper.....	do.....	50.1	34.8
264140	Pressure sensitive base stock (self adhesive), including all types paper, film, foil, etc.....		(X)	1.9
	Consumption of one-time carbon paper and printing inks produced and consumed in this industry:			
395500	One-time carbon paper, produced and consumed in this industry...	1,000 s. tons.	(S)	(X)
289301	Printing inks, complete formulations.....	Million lb....	(S)	(X)
970099	All other materials and components, parts, containers, and supplies consumed, including metal type, etc.....		(X)	69.1
971000	Materials, n.s.k ¹		(X)	33.4

(X) Not applicable. (NA) Not available. (S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹This item represents the total cost of materials for establishments that did not report detailed materials data. It also includes estimates for companies that were not mailed report forms.

Greeting Cards; Bookbinding; Printing Trade Services

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EXPLANATORY TEXT

GREETING CARDS; BOOKBINDING; PRINTING TRADE SERVICES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 2771—Greeting Card Publishing
- 2782—Blankbooks, Looseleaf Binders, and Devices*
- 2789—Bookbinding and Related Work
- 2791—Typesetting
- 2793—Photoengraving
- 2794—Electrotyping and Stereotyping
- 2795—Lithographic Platemaking and Related Services*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2771.—GREETING CARD PUBLISHING

This industry comprises establishments primarily engaged in the designing, publishing, and printing, by any process, of greeting cards for all occasions. For a detailed list of products of industry 2771, refer to table 6A, product codes 27711 11 to 27712 51.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

*Note that the "short title" for this industry is used throughout the report.

Value of shipments and other receipts of the Greeting Card Publishing Industry in 1972 totaled \$774.4 million. This included receipts from greeting card publishing and printing (primary products) valued at \$565.7 million, shipments of other products (secondary products) valued at \$180.8 million, and miscellaneous receipts (mainly resales) of \$27.9 million.

Receipts from greeting card publishing and printing (primary products) in 1972 represented 76 percent (specialization ratio) of the industry's total receipts (primary and secondary). The industry specialization ratio in 1967 was 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of converted paper products, n.e.c. (\$33.9 million).

Receipts from greeting card publishing and printing (primary products) from establishments classified in industry 2771 in 1972 represented 97 percent (coverage ratio) of these products valued at \$583.5 million shipped by all industries. In 1967, the coverage ratio was 93 percent. Other industries reporting greeting cards consisted mainly of industry 2752, Commercial Printing, Lithographic (\$8.4 million); and industry 2649, Converted Paper Products, N.E.C. (\$5.2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2771, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 2782.—BLANKBOOKS AND LOOSELEAF BINDERS (Short Title)

This industry comprises establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and library binders; and in ruling paper. For a detailed list of products of industry 2782, refer to table 6A, product codes 27821 11 to 27822 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Blankbooks and Looseleaf Binders Industry in 1972 totaled \$586.0 million. This included shipments of blankbooks and looseleaf binders (primary products) valued at \$507.7 million, shipments of other products (secondary products) valued at \$64.6 million, and miscellaneous receipts (mainly resales) of \$13.7 million.

Shipments of blankbooks and looseleaf binders (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 86 percent. Secondary products shipped by this industry in 1972 consisted mainly of stationery products (\$18.2 million); and commercial printing, lithographic (\$9.6 million).

Shipments of blankbooks and looseleaf binders (primary products) from establishments classified in industry 2782 in 1972 represented 90 percent (coverage ratio) of these products valued at \$566.2 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping blankbooks and looseleaf binders consisted mainly of industry 2648, Stationery Products (\$23.6 million); industry 2752, Commercial Printing, Lithographic (\$8.0 million); and industry 2789, Bookbinding and Related Work (\$9.4 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2782, these establishments accounted for 5 percent of value of shipments.

INDUSTRY 2789.—BOOKBINDING AND RELATED WORK

This industry comprises establishments primarily engaged in edition, trade, job, and library bookbinding; in book or paper bronzing, gilding, and edging; in map and sample mounting; and other services related to bookbinding. Establishments primarily engaged in binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in SIC group 273, Books. For a detailed list of products of industry 2789, refer to table 6A, product codes 27891 11 to 27892 91.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Bookbinding and Related Work Industry in 1972 totaled \$377.2 million. This included receipts from bookbinding and related work (primary products) valued at \$328.7 million, shipments of other products (secondary products) valued at \$16.3 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$32.2 million.

Receipts from bookbinding and related work (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94

percent. Secondary products shipped by this industry in 1972 consisted mainly of blankbooks and looseleaf binders (\$9.4 million); and commercial printing, letterpress (\$2 to \$5 million).

Receipts from bookbinding and related work (primary products) from establishments classified in industry 2789 in 1972 represented 89 percent (coverage ratio) of these products valued at \$369.2 million shipped by all industries. In 1967, the coverage ratio was also 89 percent. Other industries reporting bookbinding and related work consisted mainly of industry 2731, Book Publishing (\$18.4 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2789, these establishments accounted for 12 percent of value of shipments.

INDUSTRY 2791.—TYPESETTING

This industry comprises establishments primarily engaged in typesetting for the trade, including advertisement typesetting. For a detailed list of products of industry 2791, refer to table 6A, product codes 27910 11 to 27910 15.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of services and other receipts of the Typesetting Industry in 1972 totaled \$481.3 million. This included receipts from typesetting (primary products) valued at \$461.6 million, other services (secondary products) valued at \$12.3 million, and miscellaneous receipts (mainly resales) of \$7.4 million.

Receipts from typesetting (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent. Other receipts of this industry in 1972 consisted mainly of commercial printing, lithographic (\$2.8 million).

Receipts from typesetting (primary products) from establishments classified in industry 2791 in 1972 represented 91 percent (coverage ratio) of these products valued at \$508.7 million shipped by all industries. In 1967, the coverage ratio was 92 percent. Other industries reporting typesetting consisted mainly of industry 2752, Commercial Printing, Lithographic (\$15.0 million); and industry 2732, Book Printing (\$11.9 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail

portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2791, these establishments accounted for 16 percent of value of shipments.

INDUSTRY 2793.—PHOTOENGRAVING

This industry comprises establishments primarily engaged in preparing photoengraving plates (halftones and linecuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others. For a detailed list of products of industry 2793, refer to table 6A, product codes 27930 13 to 27930 19.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Photoengraving Industry in 1972 totaled \$229.6 million. This included receipts from photoengraving (primary products) valued at \$186.4 million, other services (secondary products) valued at \$39.4 million, and miscellaneous receipts (mainly resales) of \$3.8 million.

Receipts from photoengraving (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent. Other services performed by this industry in 1972 consisted mainly of lithographic platemaking services (\$24.2 million); and engraving and plate printing (\$4.6 million).

Receipts from photoengraving (primary products) from establishments classified in industry 2793 in 1972 represented 83 percent (coverage ratio) of these products valued at \$221.3 million shipped by all industries. In 1967, the coverage ratio was 91 percent. Other industries reporting photoengraving consisted mainly of industry 2711, Newspapers (\$8.5 million); industry 2754, Commercial Printing, Gravure (\$7.3 million); and industry 2795, Lithographic Platemaking Services (\$10.4 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2793, these establishments accounted for 12 percent of the value of shipments.

INDUSTRY 2794.—ELECTROTYPING AND STEREOTYPING

This industry comprises establishments primarily engaged in preparing electrotypes and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others. For a detailed list of products of industry 2794, refer to table 6A, product codes 27940 11 to 27940 51.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Electrotyping and Stereotyping Industry in 1972 totaled \$36.8 million. This included receipts from electrotyping and stereotyping (primary products) valued at \$27.4 million, other services (secondary products) valued at \$6.5 million, and miscellaneous receipts (mainly resales) of \$2.9 million.

Receipts from electrotyping and stereotyping (primary products) in 1972 represented 81 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent. Other services performed by this industry in 1972 consisted mainly of engraving and plate printing (\$2.7 million).

Receipts from electrotyping and stereotyping (primary products) from establishments classified in industry 2794 in 1972 represented 77 percent (coverage ratio) of these products valued at \$35.5 million shipped by all industries. In 1967, the coverage ratio was 85 percent. Other industries reporting electrotyping and stereotyping services consisted mainly of industry 2793, Photoengraving (\$3.0 million); and industry 2791, Typesetting (\$2.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2794, these establishments accounted for 11 percent of value of shipments.

INDUSTRY 2795.—LITHOGRAPHIC PLATEMAKING SERVICES (Short Title)

This industry comprises establishments primarily engaged in manufacturing lithographic plates for use by printing establishments. For a detailed list of products of industry 2795, refer to table 6A, product codes 27951 13 to 27952 41.

The code number for this industry was changed in the 1972 revision of the SIC manual from the previous classification system. Industry 2795, Lithographic Platemaking Services, had been classified under product class 27527 as a part of the Commercial Printing, Lithographic, Industry, 2752. The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 325 establishments with 8.5 thousand total employment and \$176.9 million value added would have been classified in industry 2752, Commercial Printing, Lithographic, under the old SIC.

Value of shipments and other receipts of the Lithographic Platemaking Services Industry in 1972 totaled \$256.7 million. This included receipts from lithographic platemaking (primary products) valued at \$218.1 million, other services (secondary products) valued at \$31.7 million, and miscellaneous receipts (mainly resales) of \$6.9 million.

Receipts from lithographic platemaking (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Other services performed by this industry in 1972 consisted mainly of photoengraving services (\$10.4 million).

Receipts from lithographic platemaking (primary products) from establishments classified in industry 2795 in 1972 represented 83 percent (coverage ratio) of these products valued at \$263.0 million shipped by all industries. Other industries reporting lithographic platemaking (primary products) consisted mainly of industry 2793, Photoengraving (\$20.5 million); and industry 2752, Commercial Printing, Lithographic (\$9.9 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. Normally for these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. As previously stated, industry 2795 was formerly a part of 2752 and, thus, the administrative records of the other Government agencies (for which no information was available for reclassification) still have these establishments classified in 2752. Consequently, for industry 2795 these data are not available.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts or shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2771.--GREETING CARD PUBLISHING															
1972 Census.....	199	82	23.5	191.5	12.4	24.1	93.9	527.0	261.4	774.4	46.4	(NA)	190.7	76	97
1971 ASM.....	(NA)	(NA)	23.3	172.8	13.2	25.2	84.1	473.7	268.3	738.7	14.5	192.5	200.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	24.7	163.6	14.2	26.9	82.5	458.1	215.6	663.7	12.2	183.8	194.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	28.1	160.2	15.4	28.4	75.9	430.2	196.0	629.9	24.1	166.4	188.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	26.8	154.4	14.6	26.9	72.0	396.2	183.5	564.9	21.0	148.1	171.1	(NA)	(NA)
1967 Census.....	222	92	27.6	150.6	16.4	31.3	75.0	372.3	171.9	517.9	14.9	131.2	147.8	87	93
1966 ASM.....	(NA)	(NA)	27.2	154.9	15.5	32.3	69.9	296.5	177.0	460.1	*25.7	(NA)	112.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	24.7	132.2	14.3	28.7	59.9	255.2	159.7	407.4	*11.4	(NA)	92.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	22.6	115.1	13.5	26.5	57.2	247.2	141.5	385.7	*13.6	96.1	83.1	(NA)	(NA)
1963 Census.....	257	93	21.5	105.6	13.4	26.2	53.9	204.6	138.3	346.0	6.8	83.7	75.2	92	96
1962 ASM.....	(NA)	(NA)	23.7	112.1	15.4	29.7	59.2	192.4	147.0	331.7	*5.6	75.2	74.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	23.2	107.0	14.6	29.4	55.5	187.7	136.2	321.3	*8.9	(NA)	71.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	23.0	101.5	14.2	27.7	52.9	196.5	128.9	319.6	6.3	(NA)	72.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	22.7	98.9	15.1	28.7	54.3	194.0	123.2	308.3	*7.6	(NA)	65.6	(NA)	(NA)
1958 Census.....	282	100	21.8	89.4	14.8	28.3	50.6	178.6	117.2	291.5	5.2	(NA)	53.2	94	93
INDUSTRY 2782.--BLANKBOOKS AND LOOSELEAF BINDERS															
1972 Census.....	460	239	26.4	190.2	21.7	42.8	138.6	386.9	204.8	586.0	14.3	(NA)	78.9	89	90
1971 ASM.....	(NA)	(NA)	24.1	168.8	19.9	39.6	117.9	328.8	172.7	502.3	18.0	142.0	68.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	24.0	153.9	19.9	40.7	110.2	292.4	165.3	456.6	*15.4	129.5	66.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	24.6	148.3	20.6	41.1	109.6	286.9	169.9	450.4	11.7	118.2	67.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	23.4	135.4	19.3	38.6	97.5	259.9	153.0	410.6	*11.2	112.8	60.2	(NA)	(NA)
1967 Census.....	444	193	23.2	130.3	19.4	38.4	94.5	245.4	138.0	381.3	11.6	103.5	52.7	86	88
1966 ASM.....	(NA)	(NA)	21.4	116.2	17.7	34.8	83.3	220.4	127.3	344.2	9.6	(NA)	49.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	19.7	104.1	16.1	31.9	74.4	190.2	113.7	302.7	7.3	(NA)	44.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	19.5	101.6	15.4	32.2	69.5	178.9	116.0	297.2	*7.5	73.8	42.7	(NA)	(NA)
1963 Census.....	410	158	17.9	91.2	14.4	28.7	64.4	168.5	101.4	268.2	6.1	68.0	39.9	88	88
1962 ASM.....	(NA)	(NA)	22.7	105.4	17.8	35.3	68.5	190.5	122.3	310.7	*7.4	64.5	41.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	20.9	97.1	16.4	32.4	61.8	169.5	111.3	280.4	*6.5	(NA)	38.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	19.8	91.7	15.2	31.3	60.3	159.1	104.2	261.5	(S)	(NA)	37.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	19.4	86.9	14.9	30.5	56.6	150.5	98.0	247.7	(S)	(NA)	33.9	(NA)	(NA)
1958 Census.....	434	166	17.9	79.0	13.8	26.8	52.7	132.7	83.3	217.9	6.8	(NA)	32.8	85	84
INDUSTRY 2789.--BOOKBINDING AND RELATED WORK															
1972 Census.....	1,004	301	25.1	178.9	22.0	40.5	139.1	296.2	78.3	377.2	11.2	(NA)	25.1	95	89
1971 ASM.....	(NA)	(NA)	25.3	168.1	22.2	42.1	130.7	275.4	68.6	346.1	13.7	148.2	20.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	28.4	172.9	25.3	48.2	136.9	278.2	76.3	359.2	*12.1	148.9	23.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	31.5	178.9	28.6	50.1	144.8	290.0	74.2	361.4	*9.7	106.8	28.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	30.0	165.5	27.2	47.9	132.2	268.5	77.1	342.8	*12.6	104.6	26.2	(NA)	(NA)
1967 Census.....	1,018	334	30.3	163.9	27.2	50.3	131.0	260.6	80.2	340.6	13.5	97.4	21.0	94	89
1966 ASM.....	(NA)	(NA)	32.6	161.6	28.7	52.8	127.0	253.0	100.8	349.1	11.0	(NA)	28.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	29.3	142.5	25.5	47.7	112.0	220.7	80.3	299.3	7.0	(NA)	21.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	24.1	118.7	21.7	40.0	94.3	177.8	62.7	238.3	*5.1	82.1	16.6	(NA)	(NA)
1963 Census.....	1,043	311	24.3	115.0	21.7	40.8	92.9	172.3	57.5	228.5	8.0	75.8	14.7	95	83
1962 ASM.....	(NA)	(NA)	23.6	104.5	22.3	38.8	82.4	154.3	59.4	211.0	*6.7	68.8	11.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	23.4	102.0	22.0	39.5	81.1	148.5	58.2	205.0	5.6	(NA)	10.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	24.5	99.6	23.1	40.1	79.4	149.3	58.2	206.4	(S)	(NA)	11.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	23.8	97.0	22.5	40.1	78.0	142.8	57.0	199.5	(S)	(NA)	13.1	(NA)	(NA)
1958 Census.....	972	294	22.2	87.4	19.5	37.4	69.0	132.7	48.6	182.0	6.6	(NA)	12.7	94	86
INDUSTRY 2791.--TYPESETTING															
1972 Census.....	1,885	372	25.9	268.9	21.0	37.9	205.2	424.6	57.9	481.3	14.2	(NA)	25.2	97	91
1971 ASM.....	(NA)	(NA)	28.7	281.2	23.0	42.3	214.0	399.6	57.1	458.5	9.5	177.4	25.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	29.6	275.8	23.8	44.1	212.9	405.7	58.5	462.9	*9.6	177.4	24.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	27.3	240.3	22.7	45.1	191.8	363.1	56.6	417.2	*11.6	161.7	23.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	25.3	218.7	20.8	40.9	172.9	317.5	50.3	365.1	*9.2	152.9	19.1	(NA)	(NA)
1967 Census.....	1,535	365	25.5	208.3	20.9	40.2	164.1	304.3	52.7	356.7	13.2	147.4	14.3	95	92
1966 ASM.....	(NA)	(NA)	23.8	188.6	19.1	37.3	141.1	267.3	42.3	309.6	14.5	(NA)	12.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	22.1	167.9	17.4	34.1	128.7	231.9	39.9	272.2	*7.3	(NA)	12.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	23.0	162.9	18.6	34.8	132.1	227.3	37.8	261.7	*5.6	102.6	13.5	(NA)	(NA)
1963 Census.....	1,289	282	21.0	147.3	16.9	33.5	118.7	205.4	36.3	241.0	6.7	95.8	10.7	95	90
1962 ASM.....	(NA)	(NA)	*16.5	*116.3	*12.7	*28.3	*92.5	*168.8	*27.3	*195.3	*8.4	88.7	*8.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	16.6	110.7	12.7	27.8	87.6	155.9	21.6	176.7	*4.3	(NA)	7.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	18.7	122.6	14.9	30.8	98.9	163.7	24.9	190.1	(S)	(NA)	9.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	19.1	118.8	15.2	30.8	95.0	162.5	23.4	184.4	(S)	(NA)	11.0	(NA)	(NA)
1958 Census.....	1,188	247	18.0	109.4	14.4	27.3	85.4	155.1	22.5	177.2	7.2	(NA)	9.7	93	92

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry receipts or shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 2793.--PHOTOENGRAVING															
1972 Census.....	590	135	9.9	119.2	6.6	12.6	81.0	191.7	39.0	229.6	5.4	(NA)	8.0	84	83
1971 ASM.....	(NA)	(NA)	*8.3	*102.7	*5.8	*11.1	*68.8	*151.4	*32.5	*184.4	*3.3	58.1	*8.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	10.7	113.8	7.5	14.6	80.0	163.8	37.5	201.0	*4.7	60.1	11.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	13.8	150.4	9.8	18.6	105.0	222.3	51.9	274.6	*3.8	81.1	9.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	13.3	130.9	9.6	17.7	93.2	200.7	45.5	246.7	*4.1	76.4	8.8	(NA)	(NA)
1967 Census.....	735	193	13.2	126.2	9.4	17.5	89.8	191.7	43.7	234.3	6.3	76.4	8.5	94	91
1966 ASM.....	(NA)	(NA)	13.8	120.2	9.7	19.3	87.0	180.8	44.0	225.0	*5.4	(NA)	4.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	13.9	118.1	9.9	19.5	84.9	172.0	44.8	217.1	*2.6	(NA)	4.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	13.8	119.3	9.8	19.4	85.4	171.7	42.1	213.4	*1.3	*35.6	5.4	(NA)	(NA)
1963 Census.....	883	218	14.6	119.7	10.3	19.6	86.6	171.8	41.0	212.4	5.7	*26.8	6.1	95	91
1962 ASM.....	(NA)	(NA)	14.7	120.1	9.9	21.4	84.2	151.7	32.7	184.3	*1.6	*26.9	6.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	14.7	116.3	10.0	20.9	81.3	142.8	29.9	175.2	*1.1	(NA)	6.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	17.6	130.2	12.4	23.6	92.9	182.0	36.3	218.2	*3.5	(NA)	6.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	17.3	126.7	12.2	23.0	91.4	176.7	35.4	212.1	*4.0	(NA)	6.8	(NA)	(NA)
1958 Census.....	914	272	17.3	125.3	12.3	23.0	91.4	172.2	37.1	208.9	7.0	(NA)	6.8	95	93
INDUSTRY 2794.--ELECTROTYPING AND STEREOTYPING															
1972 Census.....	81	24	1.7	19.0	1.2	2.1	13.5	28.5	8.3	36.8	0.5	(NA)	1.4	81	77
1971 ASM.....	(NA)	(NA)	2.0	20.0	1.3	2.8	13.6	32.4	9.1	41.5	.6	17.4	1.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	2.5	21.9	1.8	3.8	14.7	38.1	11.2	49.3	*.7	18.1	1.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	3.3	31.2	2.4	4.9	23.3	53.6	15.1	68.8	*1.2	19.0	2.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	3.5	32.1	2.5	5.0	22.9	53.3	14.9	68.3	*1.5	20.9	1.8	(NA)	(NA)
1967 Census.....	133	57	3.6	31.3	2.6	5.0	22.5	47.7	14.3	62.1	.7	20.5	2.2	89	85
1966 ASM.....	(NA)	(NA)	5.1	40.5	3.5	6.8	25.2	59.6	21.2	81.2	*.8	(NA)	3.6	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.1	41.3	3.7	7.2	26.0	57.9	20.8	79.0	*.7	(NA)	3.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	4.6	36.9	3.1	6.8	26.3	54.0	20.4	74.0	*.9	26.5	4.5	(NA)	(NA)
1963 Census.....	184	80	5.1	39.3	3.8	7.3	28.5	57.2	19.0	76.1	1.0	26.8	3.2	87	86
1962 ASM.....	(NA)	(NA)	6.2	42.1	4.4	8.6	31.6	56.7	17.9	74.5	*.7	26.9	2.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	6.4	44.3	4.7	9.1	32.2	60.1	18.2	78.2	*1.1	(NA)	2.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.4	43.0	4.6	8.9	31.2	59.3	18.6	77.9	(S)	(NA)	2.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	6.6	43.8	4.7	9.2	32.0	59.8	18.9	78.7	(S)	(NA)	3.3	(NA)	(NA)
1958 Census.....	226	111	6.8	44.2	5.0	9.3	31.8	62.7	18.6	81.1	2.2	(NA)	3.3	92	87
INDUSTRY 2795.--LITHOGRAPHIC PLATEMAKING SERVICES															
1972 Census.....	335	124	8.9	112.2	6.2	11.8	76.7	184.9	73.1	256.7	10.5	(NA)	19.6	87	83
1967 Census ²	188	(NA)	5.8	53.2	4.2	8.5	37.3	106.3	42.3	148.9	5.5	(NA)	(NA)	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted:

	Industry 2771	Industry 2782	Industry 2789	Industry 2791	Industry 2793	Industry 2794	Industry 2795
1972....	186	376	990	1,858	581	72	329
1967....	203	402	1,008	1,518	732	124	(NA)
1963....	239	380	1,038	1,271	872	170	(NA)

(NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²In the 1967 Census of Manufactures, data for this industry were classified in industry 2752 as product class 27527.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of receipts or shipments (dollars)	Cost of materials and payrolls per dollar of receipts or shipments (dollars)	Assets per dollar of receipts or shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2771.--GREETING CARD PUBLISHING											
1972 Census.....	8,149	(NA)	53	1,943	3.90	.34	.58	(NA)	22,425	36	21.87
1971 ASM.....	7,416	8,261	57	1,909	3.34	.36	.60	.26	18,798	37	18.80
1970 ASM.....	6,623	7,441	58	1,894	3.07	.33	.57	.27	18,547	36	17.03
1969 ASM.....	5,701	5,920	55	1,844	2.67	.31	.57	.26	15,310	37	15.15
1968 ASM.....	5,761	5,530	54	1,842	2.68	.32	.60	.26	14,784	39	14.73
1967 Census.....	5,453	4,750	59	1,907	2.40	.33	.62	.25	13,478	40	11.91
1966 ASM.....	5,693	(NA)	57	2,083	2.17	.38	.72	(NA)	10,897	52	9.19
1965 ASM.....	5,362	(NA)	58	2,004	2.09	.39	.72	(NA)	10,351	52	8.90
1964 ASM.....	5,094	4,250	60	1,971	2.16	.37	.67	.25	10,942	47	9.31
1963 Census.....	4,904	3,890	62	1,961	2.06	.40	.71	.24	9,501	52	7.81
1962 ASM.....	4,719	3,170	65	1,926	2.00	.44	.78	.23	8,102	58	6.48
1961 ASM.....	4,620	(NA)	63	2,016	1.89	.42	.76	(NA)	8,103	57	6.38
1960 ASM.....	4,407	(NA)	61	1,958	1.91	.40	.72	(NA)	8,529	52	7.09
1959 ASM.....	4,365	(NA)	67	1,907	1.89	.40	.72	(NA)	8,561	51	6.75
1958 Census.....	4,105	(NA)	68	1,912	1.79	.40	.71	(NA)	8,200	50	6.31
INDUSTRY 2782.--BLANKBOOKS AND LOOSELEAF BINDERS											
1972 Census.....	7,204	(NA)	82	1,972	3.24	.35	.67	(NA)	14,651	49	9.04
1971 ASM.....	7,004	5,892	83	1,990	2.98	.34	.68	.28	13,643	51	8.30
1970 ASM.....	6,413	5,395	83	2,045	2.71	.36	.70	.28	12,183	53	7.18
1969 ASM.....	6,028	4,800	84	1,995	2.67	.38	.71	.26	11,663	52	6.98
1968 ASM.....	5,786	4,820	82	2,000	2.53	.37	.70	.27	11,107	52	6.73
1967 Census.....	5,610	4,460	83	1,982	2.46	.36	.70	.27	10,565	53	6.39
1966 ASM.....	5,432	(NA)	83	1,969	2.39	.37	.71	(NA)	10,296	53	6.34
1965 ASM.....	5,286	(NA)	82	1,980	2.33	.38	.72	(NA)	9,655	55	5.96
1964 ASM.....	5,206	3,780	79	2,087	2.16	.39	.73	.25	9,165	57	5.55
1963 Census.....	5,095	3,800	81	1,992	2.24	.38	.72	.25	9,412	54	5.87
1962 ASM.....	4,634	2,840	78	1,983	1.94	.39	.73	.21	8,375	55	5.40
1961 ASM.....	4,639	(NA)	78	1,981	1.90	.40	.74	(NA)	8,098	57	5.23
1960 ASM.....	4,625	(NA)	77	2,051	1.93	.40	.75	(NA)	8,025	58	5.09
1959 ASM.....	4,485	(NA)	77	2,051	1.86	.40	.75	(NA)	7,762	58	4.94
1958 Census.....	4,422	(NA)	77	1,951	1.97	.38	.75	(NA)	7,423	60	4.94
INDUSTRY 2789.--BOOKBINDING AND RELATED WORK											
1972 Census.....	7,127	(NA)	88	1,840	3.43	.21	.68	(NA)	11,800	60	7.31
1971 ASM.....	6,644	5,857	88	1,896	3.11	.20	.68	.42	10,885	61	6.54
1970 ASM.....	6,088	5,242	89	1,905	2.84	.21	.69	.41	9,796	62	5.77
1969 ASM.....	5,679	3,390	91	1,752	2.89	.21	.70	.30	9,206	62	5.79
1968 ASM.....	5,517	3,490	91	1,761	2.76	.22	.71	.31	8,950	62	5.61
1967 Census.....	5,412	3,210	90	1,850	2.60	.24	.72	.29	8,608	63	5.18
1966 ASM.....	4,952	(NA)	88	1,839	2.40	.29	.75	(NA)	7,751	64	4.79
1965 ASM.....	4,854	(NA)	87	1,873	2.35	.27	.74	(NA)	7,522	65	4.63
1964 ASM.....	4,917	3,410	90	1,841	2.36	.26	.76	.34	7,363	67	4.44
1963 Census.....	4,724	3,120	89	1,886	2.27	.25	.75	.33	7,079	67	4.22
1962 ASM.....	4,423	2,920	95	1,737	2.12	.28	.78	.33	6,532	68	3.98
1961 ASM.....	4,366	(NA)	94	1,794	2.05	.28	.78	(NA)	6,359	69	3.76
1960 ASM.....	4,062	(NA)	94	1,736	1.98	.28	.76	(NA)	6,085	67	3.73
1959 ASM.....	4,076	(NA)	95	1,782	1.95	.29	.77	(NA)	6,003	68	3.56
1958 Census.....	3,946	(NA)	88	1,919	1.85	.27	.75	(NA)	5,989	66	3.55
INDUSTRY 2791.--TYPESETTING											
1972 Census.....	10,382	(NA)	81	1,804	5.41	.12	.68	(NA)	16,393	63	11.20
1971 ASM.....	9,798	6,181	80	1,839	5.06	.13	.74	.38	13,923	70	9.45
1970 ASM.....	9,320	5,993	80	1,853	4.83	.13	.72	.38	13,706	68	9.20
1969 ASM.....	8,802	5,920	83	1,987	4.25	.14	.71	.39	13,300	66	8.05
1968 ASM.....	8,644	6,040	82	1,966	4.23	.14	.74	.42	12,549	69	7.76
1967 Census.....	8,176	5,780	82	1,917	4.09	.15	.73	.41	11,945	68	7.58
1966 ASM.....	7,913	(NA)	80	1,953	3.78	.14	.75	(NA)	11,214	71	7.17
1965 ASM.....	7,591	(NA)	79	1,959	3.77	.15	.76	(NA)	10,487	72	6.80
1964 ASM.....	7,086	4,460	81	1,868	3.80	.14	.77	.39	9,888	72	6.54
1963 Census.....	7,015	4,560	81	1,978	3.54	.15	.76	.40	9,785	72	6.13
1962 ASM.....	7,053	5,380	77	2,224	3.27	.14	.74	.45	10,237	69	5.97
1961 ASM.....	6,664	(NA)	76	2,190	3.15	.12	.75	(NA)	9,384	71	5.61
1960 ASM.....	6,539	(NA)	79	2,066	3.21	.13	.78	(NA)	8,734	75	5.32
1959 ASM.....	6,236	(NA)	80	2,021	3.09	.13	.77	(NA)	8,527	73	5.28
1958 Census.....	6,071	(NA)	80	1,897	3.13	.13	.74	(NA)	8,613	70	5.69

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of receipts or shipments (dollars)	Cost of materials and payrolls per dollar of receipts or shipments (dollars)	Assets per dollar of receipts or shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2793.--PHOTOENGRAVING											
1972 Census.....	12,040	(NA)	67	1,909	6.42	.17	.69	(NA)	19,364	62	15.21
1971 ASM.....	12,373	7,000	70	1,914	6.20	.18	.73	.31	18,241	68	13.64
1970 ASM.....	10,636	5,617	71	1,947	5.48	.19	.75	.30	15,308	70	11.22
1969 ASM.....	10,899	5,880	71	1,898	5.65	.19	.74	.30	16,109	68	11.95
1968 ASM.....	9,842	5,740	72	1,844	5.27	.18	.72	.31	15,090	65	11.34
1967 Census.....	9,559	5,790	71	1,868	5.12	.19	.73	.33	14,521	66	10.92
1966 ASM.....	8,683	(NA)	70	1,985	4.50	.20	.73	(NA)	13,055	67	9.35
1965 ASM.....	8,509	(NA)	71	1,975	4.35	.21	.75	(NA)	23,396	69	8.81
1964 ASM.....	8,672	2,580	71	1,976	4.41	.20	.76	.17	12,480	69	8.87
1963 Census.....	8,190	2,330	70	1,912	4.41	.19	.76	.16	11,751	70	8.75
1962 ASM.....	8,155	2,180	67	2,153	3.94	.18	.83	.17	10,300	79	7.09
1961 ASM.....	7,916	(NA)	68	2,080	3.89	.17	.83	(NA)	9,718	81	6.84
1960 ASM.....	7,416	(NA)	71	1,907	3.94	.17	.76	(NA)	10,368	72	7.71
1959 ASM.....	7,321	(NA)	71	1,881	3.97	.17	.76	(NA)	10,207	72	7.67
1958 Census.....	7,265	(NA)	72	1,865	3.97	.18	.78	(NA)	9,980	73	7.48
INDUSTRY 2794.--ELECTROTYPING AND STEREOTYPING											
1972 Census.....	11,176	(NA)	70	1,750	6.43	.22	.74	(NA)	16,764	67	13.57
1971 ASM.....	10,000	8,700	65	2,154	4.86	.22	.70	.42	16,200	62	11.57
1970 ASM.....	8,760	7,240	72	2,111	3.87	.23	.67	.37	15,240	58	10.03
1969 ASM.....	9,455	5,760	73	2,042	4.76	.22	.67	.28	16,242	58	10.94
1968 ASM.....	9,171	5,970	71	2,000	4.58	.22	.69	.31	15,229	60	10.66
1967 Census.....	8,795	5,690	73	1,940	4.47	.23	.74	.33	13,371	66	9.45
1966 ASM.....	7,987	(NA)	70	1,924	3.69	.26	.76	(NA)	11,757	68	8.73
1965 ASM.....	8,034	(NA)	71	1,969	3.62	.26	.79	(NA)	11,257	71	8.03
1964 ASM.....	7,943	5,760	68	2,148	3.89	.28	.77	.36	11,631	68	7.99
1963 Census.....	7,680	5,250	74	1,928	3.92	.25	.77	.35	11,175	69	7.87
1962 ASM.....	6,790	4,340	71	1,944	3.66	.24	.81	.36	9,141	74	6.58
1961 ASM.....	6,928	(NA)	73	1,950	3.55	.23	.80	(NA)	9,398	74	6.62
1960 ASM.....	6,754	(NA)	72	1,948	3.48	.24	.79	(NA)	9,315	73	6.63
1959 ASM.....	6,662	(NA)	72	9,940	3.50	.24	.80	(NA)	9,107	73	6.53
1958 Census.....	6,535	(NA)	73	1,872	3.42	.23	.77	(NA)	9,273	70	6.74
INDUSTRY 2795.--LITHOGRAPHIC PLATEMAKING SERVICES											
1972 Census.....	12,606	(NA)	70	1,903	6.50	.28	.72	(NA)	20,775	61	15.67

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of receipts	Establishments		All employees	Value added by manufacture	Value of receipts
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 2795.--Lithographic Platemaking Services.....	335	124	8.9	184.9	256.7	(X)	(X)	(X)	(X)	(X)
Old industry 2752.--Commercial Printing, Lithographic....	325	117	8.5	176.9	246.1	8,699	2,238	189.5	3,255.4	5,276.2
All other industries ¹	10	7	.4	8.0	10.6	(X)	(X)	(X)	(X)	(X)

(X) Not applicable.

¹These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their product mix.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2771-- GREETING CARD PUBLISHING													
UNITED STATES.	199	82	23.5	191.5	12.4	24.1	93.9	527.0	261.4	774.4	46.4	27.6	372.3 ^e
NORTHEAST REGION	101	40	6.5	47.7	4.6	8.5	28.6	122.3	62.4	185.2	(D)	7.4	97.0
NEW ENGLAND DIVISION	26	14	3.9	29.5	2.5	4.5	16.1	70.1	36.8	106.3	(D)	3.7	45.1
NEW HAMPSHIRE.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VERMONT.	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS.	17	9	2.2	17.2	1.4	2.3	9.3	37.5	19.5	54.8	(D)	2.4	29.9
RHODE ISLAND	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	75	26	2.7	18.2	2.0	4.0	12.5	52.2	25.6	78.9	(D)	3.7	51.9
NEW YORK	60	17	2.1	14.1	1.6	3.1	9.6	42.3	19.2	63.1	(D)	2.9	45.1
NEW JERSEY	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.2
NORTH CENTRAL REGION	49	27	13.8	123.2	5.8	11.5	52.6	325.1	174.7	483.7	(D)	16.5	220.4
EAST NORTH CENTRAL DIVISION.	32	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	18	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	12.8
WEST NORTH CENTRAL DIVISION.	17	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI	8	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KANSAS	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	26.4
SOUTH REGION	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH ATLANTIC DIVISION.	13	4	.4	2.2	.3	.4	1.5	4.5	2.2	6.5	.2	.3	3.9
MARYLAND	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ARKANSAS	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	35	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MOUNTAIN DIVISION.	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	31	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	31	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2782-- BLANKBOOKS AND LOOSELEAF BINDERS													
UNITED STATES.	460	239	26.4	190.2	21.7	42.8	138.6	386.9	204.8	586.0	14.3	23.2	245.4
NORTHEAST REGION	184	89	11.7	84.0	9.5	18.6	60.7	168.9	93.6	258.7	(D)	11.0	115.2
NEW ENGLAND DIVISION	41	19	3.4	23.4	2.6	5.0	16.2	51.6	27.5	78.0	(D)	3.3	32.5
MASSACHUSETTS.	27	14	2.5	16.8	2.0	3.7	12.6	37.7	20.6	57.5	(D)	2.7	24.2
RHODE ISLAND	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION	143	70	8.3	60.5	6.9	13.7	44.4	117.3	66.0	180.7	(D)	7.7	82.8
NEW YORK	104	47	4.6	33.8	3.8	7.3	23.8	68.6	38.2	104.7	(D)	4.5	47.5
NEW JERSEY	24	14	2.6	18.5	2.2	4.4	14.5	33.3	22.4	55.2	(D)	2.4	27.4
PENNSYLVANIA	15	9	1.1	8.2	.9	1.9	6.1	15.4	5.4	20.7	(D)	.8	7.9
NORTH CENTRAL REGION	132	67	7.9	58.7	6.6	13.2	42.8	116.9	63.2	178.8	3.3	7.4	79.4
EAST NORTH CENTRAL DIVISION.	95	50	5.8	43.1	4.9	9.6	31.5	85.1	44.9	128.7	2.7	5.6	57.1
OHIO	16	8	.6	4.7	.5	1.0	3.4	9.8	3.9	13.7	.2	.5	6.5
INDIANA	8	4	.5	3.5	.5	.8	2.7	7.4	2.7	10.0	.1	BB	(D)
ILLINOIS	48	28	3.3	24.0	2.7	5.4	17.5	46.0	29.2	74.2	2.2	3.5	32.9
MICHIGAN	15	5	.8	5.8	.7	1.5	4.4	12.9	5.5	18.4	.1	.6	8.0
WISCONSIN.	8	5	.7	5.2	.5	.9	3.4	8.9	3.6	12.4	.1	CC	(D)
WEST NORTH CENTRAL DIVISION.	37	17	2.1	15.6	1.7	3.6	11.3	31.8	18.3	50.1	.6	1.8	22.4
MINNESOTA.	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	7.6
MISSOURI	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.9
KANSAS	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION	81	48	3.5	21.8	3.0	5.8	16.5	43.4	22.2	65.4	(D)	2.1	19.6
SOUTH ATLANTIC DIVISION.	48	29	1.8	10.8	1.5	2.9	8.5	20.8	10.4	31.4	1.1	1.5	12.7
MARYLAND	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
VIRGINIA	6	5	.4	2.3	.3	.6	1.9	6.0	2.5	8.5	.2	(NA)	(NA)
NORTH CAROLINA	11	5	.3	1.4	.3	.5	1.1	2.4	.9	3.3	.1	.2	.7
GEORGIA	12	8	.4	2.7	.4	.7	2.1	4.7	3.0	7.8	.1	.5	5.2
FLORIDA.	11	7	.4	2.0	.4	.6	1.7	4.8	1.9	6.7	(D)	.2	1.4
EAST SOUTH CENTRAL DIVISION.	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	21	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.7
TEXAS.	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.1
WEST REGION.	63	35	3.3	25.8	2.7	5.3	18.6	57.7	25.9	83.0	2.2	2.7	31.1
MOUNTAIN DIVISION.	14	9	.5	3.1	.4	.9	2.4	7.7	3.1	10.8	.2	(NA)	(NA)
ARIZONA.	7	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	49	26	2.8	22.7	2.2	4.3	16.2	50.0	22.8	72.2	2.0	2.6	30.6
WASHINGTON	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA	44	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	27.5

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2789-- BOOKBINDING AND RELATED WORK													
UNITED STATES, E1	1 004	301	25.1	178.9	22.0	40.5	139.1	296.2	78.3	377.2	11.2	30.3	260.6
NORTHEAST REGION, E1	455	146	11.0	82.4	9.7	17.7	65.2	131.6	25.5	157.3	(D)	14.7	131.0
NEW ENGLAND DIVISION,	68	24	1.5	10.0	1.2	2.4	7.6	14.9	3.4	18.3	(D)	1.6	13.0
MASSACHUSETTS,	46	16	1.1	8.1	.9	1.8	6.2	11.3	2.7	14.1	(D)	1.2	9.5
CONNECTICUT,	11	4	.2	.8	.2	.3	.6	1.3	.2	1.5	(D)	.68	(D)
MIDDLE ATLANTIC DIVISION, E1	387	122	9.5	72.4	8.5	15.4	57.5	116.8	22.2	139.0	(D)	13.0	116.0
NEW YORK, E1	258	72	5.3	41.4	4.7	9.0	33.4	69.5	12.2	81.7	(D)	8.0	74.4
NEW JERSEY,	64	26	2.7	20.4	2.4	3.9	16.0	30.6	6.0	36.8	(D)	2.5	22.7
PENNSYLVANIA, E1	65	24	1.6	10.6	1.4	2.5	8.1	16.7	4.0	20.5	(D)	2.5	20.9
NORTH CENTRAL REGION,	248	89	8.1	58.4	7.0	13.0	44.5	104.3	32.4	134.7	(D)	9.6	84.3
EAST NORTH CENTRAL DIVISION, . . .	183	71	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.8	66.1
OHIO, E1	40	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	6.2
INDIANA,	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS,	96	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	42.2
MICHIGAN,	21	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	9.4
WISCONSIN,	12	3	.2	1.1	.1	.3	.9	1.9	.3	2.1	.1	.85	(D)
WEST NORTH CENTRAL DIVISION, . . .	65	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	18.3
MINNESOTA, E1	15	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.7
MISSOURI,	31	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.3
SOUTH REGION, E1	137	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	27.1
SOUTH ATLANTIC DIVISION, E1	76	26	2.4	15.6	2.2	3.9	12.0	25.2	9.1	34.8	1.3	2.4	17.3
MARYLAND, E1	11	7	.6	4.6	.6	.9	3.8	7.3	1.9	9.2	.3	EE	(D)
VIRGINIA, E1	9	1	.2	1.5	.2	.4	1.0	2.1	1.1	3.2	.2	(NA)	(NA)
NORTH CAROLINA,	10	6	.4	2.2	.3	.6	1.5	2.9	1.1	3.9	.1	.5	2.3
GEORGIA,	14	5	.7	4.1	.7	1.4	3.1	7.8	4.1	12.3	.6	.3	2.4
FLORIDA, E3	22	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	2.9
EAST SOUTH CENTRAL DIVISION, . . .	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.1
TENNESSEE,	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION, . . E2	50	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	7.6
TEXAS, E2	32	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	6.3
WEST REGION, E2	164	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	18.2
MOUNTAIN DIVISION, E2	23	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.2
PACIFIC DIVISION, E2	141	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	16.0
CALIFORNIA, E2	121	19	1.5	10.2	1.4	2.6	7.9	13.9	4.1	22.4	1.0	1.5	14.1
2791-- TYPESETTING													
UNITED STATES, E1	1 885	372	25.9	268.9	21.0	37.9	205.2	424.6	57.9	481.3	14.2	25.5	304.3
NORTHEAST REGION, E1	657	163	11.5	123.5	9.2	16.4	94.0	195.7	27.2	222.2	(D)	11.7	139.9
NEW ENGLAND DIVISION, E1	130	37	2.2	22.2	1.8	3.3	16.3	33.7	4.8	37.9	(D)	1.9	20.3
MASSACHUSETTS,	72	22	1.3	13.2	1.0	1.8	9.5	19.8	3.6	22.6	(D)	1.0	11.0
CONNECTICUT, E1	43	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION, E1	527	126	9.3	101.4	7.5	13.1	77.8	161.9	22.3	184.3	(D)	9.8	119.6
NEW YORK, E1	342	78	5.6	68.3	4.3	8.0	52.4	107.8	13.6	121.4	(D)	6.3	82.0
NEW JERSEY,	94	16	1.0	9.2	.8	1.5	6.7	15.4	2.7	18.3	(D)	.6	6.4
PENNSYLVANIA,	91	32	2.7	23.9	2.3	3.5	18.7	38.7	6.0	44.6	(D)	2.9	31.2
NORTH CENTRAL REGION, E1	527	108	7.8	81.0	6.3	11.7	61.9	124.8	15.6	140.2	(D)	7.9	97.3
EAST NORTH CENTRAL DIVISION, . . E1	396	80	6.1	64.4	5.0	9.3	49.3	99.1	12.3	111.0	(D)	6.5	80.5
OHIO, E1	90	18	1.2	12.3	1.0	1.8	9.5	17.9	1.5	19.4	(D)	1.1	13.0
INDIANA, E1	40	7	.6	5.1	.5	.9	4.1	7.2	1.0	8.1	(D)	.5	6.0
ILLINOIS, E1	158	38	3.0	32.5	2.5	4.5	24.7	51.8	6.6	58.3	(D)	3.4	42.7
MICHIGAN, E1	72	14	1.0	11.3	.8	1.6	8.4	17.4	2.7	20.2	(D)	1.2	16.7
WISCONSIN, E2	36	3	.3	3.2	.2	.5	2.4	4.6	.5	5.0	(D)	.2	2.1
WEST NORTH CENTRAL DIVISION, . . E1	131	28	1.7	16.6	1.3	2.4	12.6	25.8	3.3	29.2	(D)	1.5	16.8
MINNESOTA, E1	26	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	6.4
IOWA, E1	14	1	.2	1.1	.1	.2	.9	1.7	.3	2.1	(D)	(NA)	(NA)
MISSOURI, E1	68	11	.7	7.9	.6	1.0	5.9	12.0	1.4	13.3	(D)	.6	7.3
SOUTH REGION, E2	404	60	4.0	37.8	3.3	6.0	28.9	60.7	9.2	69.7	2.8	3.8	40.7
SOUTH ATLANTIC DIVISION, E2	236	36	2.3	22.3	1.9	3.5	17.1	36.6	4.9	41.4	1.3	2.3	24.7
MARYLAND, E1	48	12	.8	7.5	.6	1.1	5.6	12.1	1.9	13.9	.4	.7	8.9
DISTRICT OF COLUMBIA, E1	30	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.9
VIRGINIA, E5	30	3	.2	2.2	.2	.4	1.7	4.5	.6	5.1	.1	.3	2.3
GEORGIA, E3	26	3	.2	2.1	.2	.3	1.6	2.9	.4	3.3	.1	.2	2.0
FLORIDA, E2	67	8	.4	3.8	.4	.7	3.0	6.5	.9	7.4	.3	.4	3.6
EAST SOUTH CENTRAL DIVISION, . . E2	62	10	.6	5.0	.5	.9	3.9	7.2	1.3	8.4	.4	.5	5.0
TENNESSEE, E2	33	6	.3	3.1	.3	.5	2.5	4.6	1.0	5.5	(D)	.4	3.7
WEST SOUTH CENTRAL DIVISION, . . E1	106	14	1.1	10.6	.9	1.6	7.8	16.9	2.9	19.9	1.1	1.0	11.0
TEXAS, E1	72	11	.9	8.8	.7	1.3	6.4	13.5	2.6	16.1	.9	.8	9.0
WEST REGION, E2	297	41	2.6	26.6	2.1	3.9	20.4	43.4	6.0	49.1	1.3	2.1	26.5
MOUNTAIN DIVISION, E2	49	6	.4	3.9	.4	.7	3.0	6.4	1.0	7.4	.4	BB	(D)
ARIZONA, E1	13	3	.2	1.6	.2	.3	1.2	2.5	.4	2.9	.1	(NA)	(NA)
PACIFIC DIVISION, E1	248	35	2.2	22.7	1.7	3.2	17.4	36.9	5.0	41.7	1.0	EE	(D)
OREGON, E1	16	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA, E2	210	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2793-- PHOTOENGRAVING													
UNITED STATES. E1	590	135	9.9	119.2	6.6	12.6	81.0	191.7	39.0	229.6	5.4	13.2	101.7
NORTHEAST REGION.	193	55	4.6	54.8	3.0	5.8	3.7	97.5	16.7	103.4	(D)	6.1	94.8
NEW ENGLAND DIVISION.	55	11	1.0	13.1	.7	1.5	10.0	22.0	3.9	25.4	(D)	1.1	17.9
MASSACHUSETTS.	22	3	.2	2.7	.2	.3	1.8	3.9	.9	4.8	(D)	.4	4.5
CONNECTICUT.	23	6	.6	8.6	.5	1.0	6.9	14.9	2.6	16.9	(D)	.6	11.6
MIDDLE ATLANTIC DIVISION. E1	138	44	3.6	41.7	2.3	4.3	28.7	65.5	12.8	77.9	(D)	5.0	76.9
NEW YORK.	72	29	2.7	31.0	1.7	3.2	21.9	49.5	8.9	58.1	(D)	3.7	59.0
NEW JERSEY. E1	36	7	.5	6.2	.3	.6	3.8	9.8	2.2	12.0	(D)	.8	(D)
PENNSYLVANIA. E1	28	8	.4	4.5	.3	.6	3.0	6.2	1.6	7.8	(D)	.6	(D)
NORTH CENTRAL REGION.	143	37	2.5	33.5	1.8	3.3	22.5	51.4	10.7	62.1	(D)	3.8	53.0
EAST NORTH CENTRAL DIVISION.	114	34	.7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	45.2
OHIO.	24	9	.4	4.6	.3	.5	3.1	7.0	2.4	9.3	(D)	.6	7.9
ILLINOIS.	41	14	1.1	16.1	.9	1.6	11.1	25.3	4.0	29.6	(D)	1.5	21.5
MICHIGAN. E1	29	6	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	10.2
WEST NORTH CENTRAL DIVISION.	29	3	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	7.8
MISSOURI.	11	3	.2	2.5	.1	.2	1.5	3.3	.6	3.9	(D)	.8	(D)
SOUTH REGION. E1	130	25	1.5	16.0	1.0	2.0	10.1	27.7	6.4	34.1	1.1	1.7	22.6
SOUTH ATLANTIC DIVISION. E2	70	15	.7	7.9	.5	.9	4.9	13.6	2.8	16.4	.5	1.0	12.2
FLORIDA. E2	26	5	.2	2.9	.2	.3	1.8	5.2	1.0	6.2	.2	.4	(D)
EAST SOUTH CENTRAL DIVISION. E1	20	2	.3	2.5	.2	.4	1.6	4.0	1.2	5.2	.1	.4	(D)
TENNESSEE.	7	2	.1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. E1	40	8	.5	5.6	.3	.7	3.5	10.1	2.4	12.5	.6	.8	(D)
TEXAS.	26	6	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	(D)
WEST REGION. E1	124	18	1.2	14.9	.8	1.5	9.7	25.0	5.0	30.0	.8	1.6	21.2
MOUNTAIN DIVISION. E1	25	1	.1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.1
PACIFIC DIVISION. E1	99	17	.7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.1
CALIFORNIA. E1	82	15	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.1
2794-- ELECTROTYPE AND STEREOTYPING													
UNITED STATES. E1	81	24	1.7	19.0	1.2	2.1	13.5	28.5	8.3	36.8	.5	3.6	47.7
NORTHEAST REGION. E1	32	11	.7	7.4	.5	.8	4.8	11.9	3.2	15.1	(D)	1.6	20.5
MIDDLE ATLANTIC DIVISION.	24	10	.6	6.7	.4	.7	4.2	10.7	3.0	13.7	(D)	1.3	16.9
NEW YORK.	17	8	.5	9.7	.3	.6	3.6	9.2	2.6	11.8	(D)	1.1	14.4
NORTH CENTRAL REGION.	32	10	.8	9.7	.6	1.1	7.5	13.6	4.5	18.1	(D)	1.5	22.1
EAST NORTH CENTRAL DIVISION.	25	10	.8	8.9	.6	1.0	6.9	12.5	3.9	16.4	(D)	1.4	20.8
ILLINOIS.	9	6	.5	6.7	.4	.7	5.3	8.6	2.5	11.1	(D)	.8	12.7
2795-- LITHOGRAPHIC PLATEMAKING SERVICES													
UNITED STATES.	335	124	8.9	112.2	6.2	11.8	76.7	184.9	73.1	256.7	10.5	(NA)	(NA)
NORTHEAST REGION.	108	31	2.9	35.4	1.8	3.3	21.8	58.7	27.9	85.8	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	25	7	.4	5.3	.3	.6	4.0	8.0	2.7	10.8	(D)	(NA)	(NA)
MASSACHUSETTS.	12	3	.2	2.1	.1	.3	1.6	3.2	1.4	4.6	(D)	(NA)	(NA)
CONNECTICUT.	10	2	.2	2.3	.1	.3	1.7	3.7	1.1	4.7	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	83	24	2.5	30.1	1.5	2.7	17.8	50.6	25.2	75.1	(D)	(NA)	(NA)
NEW YORK.	55	12	1.5	17.4	.8	1.5	10.2	28.5	14.5	42.6	(D)	(NA)	(NA)
NEW JERSEY.	11	6	.5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	17	6	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	133	65	4.1	54.2	3.0	5.8	38.7	89.3	31.0	120.0	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	102	50	.7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.	27	14	.8	10.4	.6	1.2	7.8	15.5	4.6	20.1	(D)	(NA)	(NA)
ILLINOIS.	43	22	1.6	22.2	1.2	2.4	16.1	33.8	12.5	46.4	(D)	(NA)	(NA)
MICHIGAN.	14	7	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	10	4	.2	2.9	.2	.3	2.0	7.0	2.1	9.0	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	31	15	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA.	10	5	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	14	7	.6	7.9	.4	.8	5.3	16.2	7.0	23.1	(D)	(NA)	(NA)
SOUTH REGION.	60	20	1.3	14.5	1.0	1.9	10.3	24.9	11.1	35.8	1.1	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	37	10	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND.	8	2	.1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA.	7	1	.2	2.0	.1	.2	1.7	3.0	.8	3.8	(2)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	14	5	.4	3.9	.3	.7	3.0	7.1	2.0	8.9	(D)	(NA)	(NA)
TENNESSEE.	7	4	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	15	5	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	12	4	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	28	8	.6	8.2	.4	.8	5.9	12.0	3.2	15.1	.8	(NA)	(NA)
PACIFIC DIVISION.	27	8	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	22	8	.5	7.5	.4	.7	5.4	10.9	2.9	13.6	(D)	(NA)	(NA)

See footnotes on next page.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establish- ments (number)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expendi- tures, new (million dollars)	End-of- year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
2771-- GREETING CARD PUBLISHING											
ESTABLISHMENTS, TOTAL,	199	23.5	191.5	12.4	24.1	93.9	527.0	261.4	774.4	46.4	190.7
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E9	68	.1	.7	.1	.1	.4	3.0	1.3	4.3	.1	1.1
5 TO 9 EMPLOYEES E9	24	.2	1.0	.1	.2	.6	3.2	1.4	4.6	.1	1.3
10 TO 19 EMPLOYEES E3	25	.3	2.8	.2	.5	1.9	5.8	2.9	8.9	.3	1.6
20 TO 49 EMPLOYEES E2	26	.9	7.4	.6	1.1	4.6	15.3	9.2	24.3	.3	4.1
50 TO 99 EMPLOYEES E1	20	1.3	9.5	.9	1.7	6.0	22.8	12.0	33.6	1.6	6.3
100 TO 249 EMPLOYEES	17	2.5	21.6	1.8	3.5	15.3	42.7	26.5	69.0	3.0	10.7
250 TO 499 EMPLOYEES	9	2.9	18.2	2.0	3.1	9.7	37.6	27.1	64.8	4.0	13.6
500 TO 999 EMPLOYEES	7	15.4	130.1	6.7	13.9	55.4	396.6	180.9	564.9	(D)	152.0
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	73	.2	1.4	.1	.2	.8	5.1	2.4	7.5	.1	2.2
2782-- BLANKBOOKS AND LOOSELEAF BINDERS											
ESTABLISHMENTS, TOTAL,	460	26.4	190.2	21.7	42.8	138.6	386.9	204.8	586.0	14.3	78.9
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E7	111	.2	1.4	.2	.3	1.0	3.7	2.1	6.1	.3	.7
5 TO 9 EMPLOYEES E5	53	.4	2.7	.3	.6	2.0	5.9	2.8	8.6	.2	.9
10 TO 19 EMPLOYEES E2	57	.8	5.2	.6	1.2	3.7	10.2	7.3	17.6	.4	1.7
20 TO 49 EMPLOYEES	102	3.3	20.8	2.8	5.1	14.9	43.1	22.3	65.2	2.5	6.6
50 TO 99 EMPLOYEES	63	4.6	31.1	3.7	7.2	21.8	63.2	33.7	96.1	3.3	10.3
100 TO 249 EMPLOYEES	58	9.3	67.3	7.7	15.2	48.4	134.7	72.2	205.3	4.8	22.3
250 TO 499 EMPLOYEES	10	3.2	26.3	2.7	5.8	20.3	50.5	26.1	75.6	1.2	8.7
500 TO 999 EMPLOYEES	4	4.6	35.4	3.7	7.3	26.6	75.6	38.3	111.5	1.7	27.7
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	124	.4	2.6	.4	.7	1.9	6.2	3.6	9.8	.3	1.3
2789-- BOOKBINDING AND RELATED WORK											
ESTABLISHMENTS, TOTAL, E1	1 004	25.1	178.9	22.0	40.5	139.1	296.2	78.3	377.2	11.2	25.1
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E8	335	.6	4.0	.6	1.0	3.2	10.3	2.4	12.8	.4	.6
5 TO 9 EMPLOYEES E6	200	1.4	9.8	1.3	2.2	7.8	18.5	3.6	22.0	.8	1.1
10 TO 19 EMPLOYEES E2	168	2.3	16.6	2.0	3.7	13.1	23.6	5.0	33.0	1.0	1.1
20 TO 49 EMPLOYEES E1	172	5.3	37.9	4.6	8.4	29.8	61.7	11.8	73.4	3.3	3.1
50 TO 99 EMPLOYEES	80	5.6	41.6	4.9	9.0	32.4	65.1	14.8	80.2	2.3	4.1
100 TO 249 EMPLOYEES	37	5.4	38.7	4.7	9.1	29.6	60.2	21.7	81.4	1.7	8.6
250 TO 499 EMPLOYEES	11	4.4	30.3	3.9	7.1	23.1	56.8	18.9	74.3	1.7	6.5
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	435	1.6	10.4	1.5	2.7	8.4	21.6	5.0	26.6	.9	1.4
2791-- TYPESETTING											
ESTABLISHMENTS, TOTAL, E1	1 885	25.9	268.9	21.0	37.9	205.2	424.6	57.9	481.3	14.2	25.2
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E8	950	1.7	15.6	1.6	2.5	12.0	34.4	4.9	39.3	1.0	2.2
5 TO 9 EMPLOYEES E5	324	2.1	20.9	1.7	3.2	16.4	36.8	4.4	41.1	1.1	1.7
10 TO 19 EMPLOYEES E1	239	3.3	32.9	2.7	5.0	25.4	52.6	7.3	59.8	2.1	2.0
20 TO 49 EMPLOYEES	256	8.0	83.8	6.4	12.1	64.7	127.7	17.2	144.2	5.4	7.1
50 TO 99 EMPLOYEES	86	6.0	65.1	4.6	8.2	48.0	98.0	13.5	110.8	3.1	6.1
100 TO 249 EMPLOYEES	28	4.8	50.6	4.0	6.9	38.7	75.0	10.6	86.0	1.5	6.1
250 TO 499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	922	2.2	20.3	2.0	3.3	15.4	43.2	5.9	49.1	1.1	3.0
2793-- PHOTOENGRAVING											
ESTABLISHMENTS, TOTAL, E1	590	9.9	119.2	6.6	12.6	81.0	191.7	39.0	229.6	5.4	8.0
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E8	225	.4	4.7	.4	.6	3.1	10.7	2.1	12.9	.2	.9
5 TO 9 EMPLOYEES E3	117	.8	8.2	.6	1.1	5.9	15.4	2.9	18.4	.4	.5
10 TO 19 EMPLOYEES	113	1.6	16.4	1.0	1.9	10.9	27.5	6.1	33.7	.9	.7
20 TO 49 EMPLOYEES	91	2.7	31.6	1.8	3.3	20.5	47.2	11.5	58.8	1.8	1.9
50 TO 99 EMPLOYEES	32	4.4	38.5	2.9	5.7	40.5	90.5	16.3	105.8	2.2	4.2
100 TO 249 EMPLOYEES	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	222	.5	5.7	.4	.7	3.9	12.9	2.1	14.9	.3	.6

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
2794-- ELECTROTYPING AND STEREOTYPING											
ESTABLISHMENTS, TOTAL. E1	81	1.7	19.0	1.2	2.1	13.5	28.5	8.3	36.8	0.5	1.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	23	(Z)	.4	(Z)	(Z)	.3	1.2	.3	1.5	(Z)	.1
5 TO 9 EMPLOYEES E4	20	.1	1.2	.1	.1	.9	2.0	.8	2.8	(Z)	.1
10 TO 19 EMPLOYEES	14	.2	2.2	.2	.3	1.7	4.0	.9	4.9	(Z)	.2
20 TO 49 EMPLOYEES	17	.6	6.2	.3	.6	3.6	9.1	3.4	12.4	.2	.4
50 TO 99 EMPLOYEES	4	.7	9.0	.5	1.0	7.1	12.2	3.0	15.2	.2	.7
100 TO 249 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	17	(Z)	.4	(Z)	.1	.3	1.3	.3	1.6	(Z)	.1
2795-- LITHOGRAPHIC PLATEMAKING SERVICES											
ESTABLISHMENTS, TOTAL.	335	8.9	112.2	6.2	11.8	76.7	184.9	73.1	256.7	10.5	19.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	29	.1	.9	.1	.2	.8	1.5	.4	2.0	.1	(Z)
5 TO 9 EMPLOYEES	75	.5	6.4	.4	.8	5.0	10.3	3.6	13.9	.9	.3
10 TO 19 EMPLOYEES	107	1.5	17.7	1.1	2.2	13.3	26.5	9.1	35.5	.9	1.4
20 TO 49 EMPLOYEES	84	2.5	33.7	1.8	3.5	23.9	54.8	19.4	74.2	2.4	3.3
50 TO 99 EMPLOYEES	30	2.1	27.5	1.5	2.8	20.3	43.6	13.9	57.2	2.0	4.0
100 TO 249 EMPLOYEES	7	1.0	13.3	.8	1.4	9.9	24.6	8.2	32.6	1.3	2.3
250 TO 499 EMPLOYEES	2	1.2	12.7	.5	.9	3.5	23.6	18.4	41.4	2.9	8.3
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
2771	GREETING CARD PUBLISHING										
	ENTIRE INDUSTRY	199	23.5	191.5	12.4	24.1	93.9	527.0	261.4	774.4	40.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	171	12.5	88.6	8.9	17.3	59.2	297.7	134.1	434.1	9.0
27711	GREETING CARDS, PUBLISHERS' SALES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	63	21.2	166.0	10.7	20.7	76.6	481.4	234.3	702.6	43.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	47	10.6	73.6	7.7	15.0	49.0	264.7	111.8	379.6	6.5
27712	GREETING CARDS, PRINTING ONLY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	26	1.4	17.7	1.1	2.5	13.8	28.6	20.0	48.1	2.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	13	.5	6.9	.4	1.0	5.4	11.5	12.7	23.9	1.5
2782	BLANKBOOKS AND LOOSELEAF BINDERS										
	ENTIRE INDUSTRY	460	26.4	190.2	21.7	42.8	138.6	386.9	204.8	586.0	14.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	415	20.5	144.9	17.1	34.0	106.3	292.8	150.6	438.5	11.9
27821	BLANKBOOK MAKING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	166	14.6	106.3	12.3	24.7	81.1	214.7	106.9	319.4	8.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	130	10.5	74.9	9.1	18.4	59.0	153.9	71.1	224.0	7.0
27822	LOOSELEAF BINDERS AND DEVICES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	108	9.8	71.3	7.8	15.2	48.4	147.8	85.3	229.7	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	84	5.9	40.8	4.9	9.6	28.2	78.3	47.1	124.0	2.5
2789	BOOKBINDING AND RELATED WORK										
	ENTIRE INDUSTRY	1 004	25.1	178.9	22.0	40.5	139.1	296.2	78.3	377.2	11.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	914	21.6	153.6	19.0	34.7	119.4	257.0	67.5	327.4	10.0
27891	EDITION, LIBRARY, OTHER HARD-COVER BOOKBINDING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	129	9.7	63.0	8.4	15.1	48.5	106.1	37.7	142.8	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	113	7.7	50.3	6.7	12.1	38.9	85.7	30.5	115.8	3.1
27892	OTHER BOOK, PAMPHLET, AND RELATED BINDING WORK (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	238	10.2	81.1	8.9	16.9	62.4	128.1	28.0	160.0	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	209	9.0	71.8	7.9	14.9	55.5	112.8	22.4	139.3	4.2
2791	TYPESETTING										
	ENTIRE INDUSTRY	1 885	25.9	268.9	21.0	37.9	205.2	424.6	57.9	481.3	14.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 850	24.9	259.3	20.1	36.5	197.2	410.3	54.9	464.0	13.7
2793	PHOTOENGRAVING										
	ENTIRE INDUSTRY	590	9.9	119.2	6.6	12.6	81.0	191.7	39.0	229.6	5.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	509	6.7	77.3	4.5	8.4	52.8	127.3	26.4	153.4	3.4
2794	ELECTROTYPING AND STEREOTYPING										
	ENTIRE INDUSTRY	81	1.7	19.0	1.2	2.1	13.5	28.5	8.3	36.8	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	67	1.1	11.9	.8	1.4	8.7	19.7	5.6	25.3	.3
2795	LITHOGRAPHIC PLATEMAKING SERVICES										
	ENTIRE INDUSTRY	335	8.9	112.2	6.2	11.8	76.7	184.9	73.1	256.7	10.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	280	7.2	89.6	5.0	9.5	60.5	148.0	61.5	208.5	8.8
27951	LITHOGRAPHIC PLATES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	118	3.6	41.7	2.3	4.1	24.4	73.7	41.5	114.6	6.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	81	1.8	20.7	1.2	2.3	12.8	37.5	23.2	60.8	3.6
27952	LITHOGRAPHIC SERVICES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	182	4.4	60.4	3.3	6.4	45.5	96.7	26.0	122.1	4.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	114	2.7	37.4	2.1	4.1	28.6	62.4	16.9	78.8	3.2

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
						Col. B Col. E				Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
2771	Greeting card publishing.....1972..	774.4	565.7	180.8	27.9	76	583.5	565.7	17.8	97
	.....1967..	517.9	412.4	63.6	41.9	87	441.4	412.4	29.0	93
2782	Blankbooks and looseleaf binders.....1972..	586.0	507.7	64.6	13.7	89	566.2	507.7	58.5	90
	.....1967..	381.3	319.4	51.7	10.2	86	362.3	319.4	42.9	88
2789	Bookbinding and related work.....1972..	377.2	328.7	16.3	32.2	95	369.2	328.7	40.5	89
	.....1967..	340.6	301.1	17.7	21.8	94	337.5	301.1	36.4	89
2791	Typesetting.....1972..	481.3	461.6	12.3	7.4	97	508.7	461.6	47.1	91
	.....1967..	356.7	333.9	16.1	6.7	95	362.1	333.9	28.2	92
2793	Photoengraving.....1972..	229.6	186.4	39.4	3.8	84	221.3	186.4	34.9	83
	.....1967..	234.3	214.6	14.3	5.4	94	237.1	214.6	22.5	91
2794	Electrotyping and stereotyping.....1972..	36.8	27.4	6.5	2.9	81	35.5	27.4	8.1	77
	.....1967..	62.1	52.1	6.6	3.4	89	61.4	52.1	9.3	85
2795	Lithographic platemaking services.....1972..	256.7	218.1	31.7	6.9	87	263.0	218.1	44.9	83
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Greeting card publishing (SIC 2771)	Blankbooks and looseleaf binders (SIC 2782)	Bookbinding and related work (SIC 2789)	Typesetting (SIC 2791)	Photoen- graving (SIC 2793)	Electro- typing and stereotyping (SIC 2794)	Lithographic platemaking services (SIC 2795)	Other industries
	Total value of receipts of the industry.....	(X)	774.4	586.0	377.2	481.3	229.6	36.8	256.7	(X)
2771-	Greeting card publishing.....	583.5	565.7	-	-	-	-	-	-	17.8
27711	Greeting cards, publishers' sales.....	510.8	503.4	-	-	-	-	-	-	7.4
27712	Greeting cards, printed for publication by others.....	48.8	38.6	-	-	-	-	-	-	10.2
27710	Greeting cards, receipts, n.s.k.....	23.8	23.7	-	-	-	-	-	-	.1
2782-	Blankbooks and looseleaf binders	566.2	-	507.7	9.4	-	-	-	-	49.1
27821	Blankbook making.....	320.1	-	293.3	3.0	-	-	-	-	23.8
27822	Looseleaf binders and devices.	209.9	-	178.5	6.4	-	-	-	-	25.0
27820	Blankbooks and looseleaf binders, n.s.k.....	36.2	-	35.8	-	-	-	-	-	.4
2789-	Bookbinding and related work....	369.2	-	(5-10)	328.7	-	-	-	(under 2)	31.2
27891	Edition library and other hardcover bookbinding.....	147.6	-	1.7	126.3	-	-	-	-	19.6
27892	Other book and pamphlet binding and related binding work.....	164.8	-	(5-10)	147.7	-	-	-	(under 2)	9.4
27890	Bookbinding and related work, n.s.k.....	56.9	-	-	54.7	-	-	-	-	2.2
2791-	Typesetting.....	508.7	-	-	(under 2)	461.6	(under 2)	(under 2)	2.6	41.8
2793-	Photoengraving.....	221.3	-	-	-	.9	186.4	.8	10.4	22.8

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Greeting card publishing (SIC 2771)	Blankbooks and looseleaf binders (SIC 2782)	Bookbinding and related work (SIC 2789)	Typesetting (SIC 2791)	Photoengraving (SIC 2793)	Electrotyping and stereotyping (SIC 2794)	Lithographic platemaking services (SIC 2795)	Other industries
	Total value of receipts of the industry--Continued									
2794-	Electrotyping and stereotyping..	35.5	-	-	-	2.3	3.0	27.4	-	2.8
2795-	Lithographic platemaking services.....	263.0	(under 2)	-	-	(2-5)	24.2	-	218.1	18.0
27951	Lithographic plates.....	112.3	-	-	-	.6	7.7	-	93.3	10.7
27952	Lithographic services.....	131.6	-	-	-	1.9	16.5	-	108.5	4.7
27950	Lithographic platemaking services, n.s.k.....	19.1	(under 2)	-	-	(under 2)	-	-	16.2	2.6
	Other product shipments by 4-digit product group:									
2297-	Nonwoven fabrics.....	(X)	13.8	-	-	-	-	-	-	(X)
2647-	Sanitary paper products.....	(X)	(10-20)	-	-	-	-	-	-	(X)
2648-	Stationery products.....	(X)	23.7	18.2	-	-	-	-	-	(X)
2649-	Converted paper products, n.e.c.	(X)	33.9	1.2	-	-	-	-	-	(X)
2654-	Sanitary food containers.....	(X)	(20-50)	-	-	-	-	-	-	(X)
2731-	Book publishing.....	(X)	(10-20)	-	-	-	-	-	-	(X)
2751-	Commercial printing, letterpress	(X)	4.5	5.8	(2-5)	1.6	-	1.1	-	(X)
2752-	Commercial printing, lithographic.....	(X)	7.4	9.6	(2-5)	2.8	.6	-	3.2	(X)
2753-	Engraving and plate printing..	(X)	-	-	-	-	4.6	2.7	-	(X)
2754-	Commercial printing, gravure..	(X)	-	-	-	-	5.1	-	(under 2)	(X)
2761-	Manifold business forms.....	(X)	-	(5-10)	-	-	-	-	-	(X)
3497-	Metal foil and leaf.....	(X)	(5-10)	-	-	-	-	-	-	(X)
3944-	Games, toys, and children's vehicles.....	(X)	(5-10)	-	-	-	-	-	-	(X)
3999-	Manufacturing industries, n.e.c.	(X)	(10-20)	-	-	-	-	-	-	(X)
	Other secondary products.....	(X)	61.2	12.3	(under 2)	2.1	(under 2)	(under 2)	14.1	(X)
	Miscellaneous receipts.....	(X)	27.9	13.7	32.2	7.4	3.8	2.9	6.9	(X)
93000	Contract work.....	(X)	12.6	1.6	27.7	-	-	-	-	(X)
99989	Resales.....	(X)	14.9	10.9	3.8	6.2	3.2	2.7	6.0	(X)
99980	Other miscellaneous receipts..	(X)	.4	1.2	.7	1.2	.6	.2	.9	(X)
Product code	Industry, class of products, and miscellaneous receipts									Other industries
	Listing of the other industries with over \$2 million receipts of the primary products									
2771-	2649 Converted paper products, n.e.c.....									5.2
	2752 Commercial printing, lithographic.....									8.4
2782-	2645 Die-cut paper and board.....									(2-5)
	2648 Stationery products.....									23.6
	2751 Commercial printing, letterpress.....									4.6
	2752 Commercial printing, lithographic.....									8.0
	3079 Miscellaneous plastics products.....									6.3
2789-	2731 Book publishing.....									18.4
	2732 Book printing.....									3.4
	2751 Commercial printing, letterpress.....									3.7
	2752 Commercial printing, lithographic.....									3.1
2791-	2711 Newspapers.....									7.9
	2732 Book printing.....									11.9
	2751 Commercial printing, letterpress.....									3.7
	2752 Commercial printing, lithographic.....									15.0
2793-	2711 Newspapers.....									8.5
	2752 Commercial printing, lithographic.....									2.5
	2753 Engraving and plate printing.....									2.9
	2754 Commercial printing, gravure.....									7.3
2795-	2752 Commercial printing, lithographic.....									6.1
	2754 Commercial printing, gravure.....									(2-5)
	2893 Printing ink.....									(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2771- --	GREETING CARD PUBLISHING, TOTAL.....		(X)	583.5	(X)	441.4
27711 --	Greeting Cards, Publishers' Sales.....		(X)	510.8	(X)	381.4
27711 11	Christmas cards.....	Million copies sold.	2,278	125.1	2,248	122.8
27711 23	Valentine cards.....	do.....	273	30.7	933	80.2
27711 25	Seasonal cards other than Christmas and Valentine.....	do.....	563	62.3		
27711 31	Other greeting cards.....	do.....	2,222	286.7			1,763	176.1
27711 00	Greeting cards, n.s.k.....		(X)	5.9	(X)	2.3
27712 --	Greeting Cards, Printed for Publication by Others.....		(X)	48.8	(X)	44.0
27712 11	Letterpress process.....		(X)	4.7	(X)	15.2
27712 51	Lithographic process.....		(X)	41.3	(X)	28.3
27712 00	Greeting cards, printed for publication by others, n.s.k.....		(X)	2.8	(X)	.5
27710 00	Greeting cards, receipts, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	16.4	(X)	11.8
27710 02	Greeting cards, receipts, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	7.5	(X)	4.2
1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972		1967		
2782- --	BLANKBOOKS AND LOOSELEAF BINDERS, TOTAL.....			566.2		362.3
27821 --	Blankbook Making.....			320.1		186.8
27821 11	Columnar, ledger, and account books, including record books which are section-sewed and center stitched, time books, and miniature account books.....			21.8		10.2
27821 31	Albums and scrapbooks, including record, photograph, stamp albums, etc.....			54.1		39.4
27821 35	Diaries and appointment books.....			15.8		5.8
27821 43	Checkbooks, including inserts and refills but excluding those in continuous form and die-cut: Letterpress process.....			170.6		84.8
27821 45	Lithographic process.....			13.5		18.5
27821 51	Columnar pads (lithographed, printed, or ruled), bound or wirebound.....			8.2		4.9
27821 53	Memo books, case-made, sewed or glued to leather, imitation leather, or similar materials.....			7.7		2.3
27821 55	Miscellaneous blankbooks, including address books, bound roll books, drafts, receipts, and financial notes.....			18.0		17.9
27821 61	Paper ruling on materials owned by other (pen and disc).....			.4		.9
27821 00	Blankbook making, n.s.k.....			10.0		2.1
27822 --	Looseleaf Binders and Devices.....			209.9		153.8
27822 13	Looseleaf forms, record type.....			15.0		15.7
27822 21	Looseleaf indexes.....			6.6		5.6
27822 33	Looseleaf binders, ring and prong type, including looseleaf memo books.....			105.9		90.1
27822 35	Post binders, all types, such as thin post, heavy post, and nylon post.....			29.6		14.0
27822 39	Other looseleaf binders, including minute and municipality record books and catalog covers.....			10.9		10.2
27822 71	Looseleaf metal parts, sold separately.....			15.7		13.0
27822 98	Other looseleaf binders and devices, n.e.c.....			9.7		(NA)
27822 00	Looseleaf binders and devices, n.s.k.....			16.5		5.2
27820 00	Blankbooks and looseleaf binders, n.s.k., for companies with 10 employees or more. (See note.).....			26.3		15.2
27820 02	Blankbooks and looseleaf binders, n.s.k., for companies with less than 10 employees. (See note.).....			9.8		6.5
2789- --	BOOKBINDING AND RELATED WORK, TOTAL.....			369.2		337.5
27891 --	Edition, Library, and Other Hard Cover Bookbinding.....			147.6		167.4
27891 13	Edition, library and trade binding, excluding books published and bound or printed and bound at the same establishment: General consumer and trade books, including adult and juvenile trade books, book club and indirect mail books.....			32.1		45.3
27891 11	Elementary and high school textbooks (grades K through 12), including textbook-related teachers' editions, manuals, etc.....			11.6	73.9	
27891 12	Technical, scientific, business and professional books, and college textbooks for grades 13 and over, including private business and secretarial schools, post-high-school vocational schools, institutes, and training courses.....			20.0		
27891 14	Subscription reference books, including encyclopedias, religious subscription reference books, and other subscription reference books.....			14.8		
27891 16	All other books, n.e.c., including religious books and dictionaries (Bibles, testaments, hymnals, devotionals, thesauruses, atlases, etc.).....			24.1	39.5	
27891 41	Library binding, including rebinding and prebinding of books for library use, hard cover binding of periodicals and records, and other hard cover binding, except edition.....			41.8		
27891 00	Edition, library, and other hard cover bookbinding, n.s.k.....			3.0		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
2789- --	BOOKBINDING AND RELATED WORK--Continued		
27892 --	Other Book and Pamphlet Binding and Related Binding Work.....	164.8	135.4 *
27892 23	Soft cover binding of books (49 pages or more, exclusive of the covers).....	12.1	16.1
27892 25	Pamphlet and other soft cover binding.....	55.4	42.8
27892 61	Mechanical binding (wire, plastic, etc.) of products printed elsewhere.....	15.9	19.2
27892 91	Receipts for miscellaneous bookbinding work (material printed elsewhere), embossing, varnishing, in- dexing, mounting, and other service operations related to bookbinding, including sample and color cards.....	75.0	51.8
27892 00	Other book and pamphlet binding and related binding work, n.s.k.....	6.4	5.5
27890 00	Bookbinding and related work, n.s.k., for companies with 10 employees or more. (See note.).....	30.3	19.9
27890 02	Bookbinding and related work, n.s.k., for companies with less than 10 employees. (See note.).....	26.6	14.8
1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
2791- --	TYPESETTING, TOTAL.....	508.7	362.1
27910 --	Typesetting:		
27910 11	Hot metal and related typesetting, including all hand and machine typesetting, composition, and such other typographic services involving metal and not associated with photographic-film typesetting or direct-impression typesetting and their related processes.....	270.5	253.6
	Photographic typesetting, including phototypesetting, photolettering, and such other typographic processes and services which employ photographic equipment and/or photographic materials and techniques:		
27910 12	Computer-controlled machines.....	112.6	41.7
27910 14	All other, including keyboard input devices.....	18.5	
27910 15	Direct-impression typesetting, including all nonmetallic, nonphotographic typesetting and composition normally produced by direct impression procedures and related processes.....	10.8	18.7
27910 00	Typesetting, n.s.k., for companies with 10 employees or more. (See note.).....	43.5	28.1
27910 02	Typesetting, n.s.k., for companies with less than 10 employees. (See note.).....	52.7	20.0
2793- --	PHOTOENGRAVING, TOTAL.....	221.3	237.1
27930 --	Photoengraving Plates Made for Others:		
27930 13	Zinc.....	73.9	237.1
27930 15	Copper.....	75.8	
27930 17	Magnesium.....	15.7	
27930 19	Other.....	16.9	
27930 00	Photoengraving, n.s.k., for companies with 10 employees or more. (See note.).....	24.0	(NA)
27930 02	Photoengraving, n.s.k., for companies with less than 10 employees. (See note.).....	14.9	(NA)
2794- --	ELECTROTYPING AND STEREOTYPING, TOTAL.....	35.5	61.4
27940 --	Electrotyping and Sterotyping Duplicate Plates Made for Others.....	27.0	53.6
27940 11	Electrotypes.....	17.5	35.2
27940 31	Stereotypes.....	1.9	2.4
27940 51	Matrices.....	7.6	16.0
27940 00	Electrotyping and stereotyping, n.s.k., for companies with 10 employees or more. (See note.).....	6.8	6.9
27940 02	Electrotyping and stereotyping, n.s.k., for companies with less than 10 employees. (See note.).....	1.6	.9
2795- --	LITHOGRAPHIC PLATEMAKING, TOTAL.....	263.0	151.2
27951 --	Lithographic Plates:		
27951 13	Diazo-type plates (prepared for printing).....	20.2	151.2
27951 15	Wipe-on plates.....	18.4	
27951 17	Deep-etch plates.....	32.3	
27951 23	Multi-metal plates.....	11.4	
27951 29	All other lithographic plates.....	30.0	
27951 00	Lithographic plates, n.s.k.....		
27952 --	Lithographic Services:		
27952 31	Color corrected process positives or negatives on film.....	94.4	12.9
27952 39	All other film.....	24.3	
27952 41	Assembled flats for platemaking.....	12.9	
27950 00	Lithographic platemaking, n.s.k., for companies with 10 employees or more. (See note.).....	19.1	(NA)
27950 02	Lithographic platemaking, n.s.k., for companies with less than 10 employees. (See note.).....	(NA)	(NA)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
GREETING CARDS, PUBLISHERS' SALES (27711)			BLANKBOOK MAKING (27821)—Continued		
United States.....	510.8	381.4	North Central Region.....	82.3	52.1
Northeast Region.....	136.6	106.7	East North Central Division.....	51.3	32.6
New England Division.....	76.9	43.5	Ohio.....	CC	BB
New Hampshire.....	CC	CC	Indiana.....	CC	CC
Vermont.....	BB	BB	Illinois.....	20.3	14.3
Massachusetts.....	43.8	26.9	Michigan.....	CC	BB
Rhode Island.....	FF	BB	Wisconsin.....	7.9	BB
Middle Atlantic Division.....	59.7	63.2	West North Central Division.....	31.0	19.5
New York.....	43.5	52.8	Minnesota.....	EE	CC
New Jersey.....	12.8	5.8	Iowa.....	BB	(NA)
Pennsylvania.....	3.4	4.7	Missouri.....	6.7	BB
			Kansas.....	CC	CC
North Central Region.....	293.6	209.8	South Region.....	45.2	24.3
East North Central Division.....	GG	GG	South Atlantic Division.....	22.0	13.9
Ohio.....	GG	GG	Maryland.....	4.7	4.2
Indiana.....	AA	AA	Virginia.....	6.4	AA
Illinois.....	20.3	20.1	Georgia.....	4.6	CC
West North Central Division.....	GG	GG	Florida.....	5.0	AA
Missouri.....	GG	GG	East South Central Division.....	3.3	1.5
Kansas.....	EE	CC	Kentucky.....	AA	(NA)
South Region.....	50.2	44.8	Alabama.....	1.0	(NA)
South Atlantic Division.....	2.2	BB	West South Central Division.....	20.0	8.9
Maryland.....	AA	BB	Arkansas.....	AA	(NA)
East South Central Division.....	AA	CC	Louisiana.....	BB	(NA)
Tennessee.....	AA	BB	Oklahoma.....	AA	(NA)
West South Central Division.....	FF	FF	Texas.....	13.9	8.3
Arkansas.....	FF	FF			
West Region.....	30.4	20.1	West Region.....	48.7	28.3
Mountain Division.....	CC	(NA)	Mountain Division.....	6.0	(NA)
Colorado.....	CC	(NA)	Montana.....	AA	(NA)
Pacific Division.....	FF	EE	Arizona.....	BB	(NA)
California.....	FF	EE	Pacific Division.....	42.6	FF
			Washington.....	BB	BB
			Oregon.....	BB	AA
			California.....	34.9	23.1
GREETING CARDS, PRINTED FOR PUBLICATION BY OTHERS (27712)			LOOSELEAF BINDERS AND DEVICES (27822)		
United States.....	48.9	44.0	United States.....	209.9	153.8
Northeast Region.....	14.8	18.7	Northeast Region.....	79.1	63.5
New England Division.....	7.6	12.3	New England Division.....	20.7	14.8
New Hampshire.....	BB	AA	Massachusetts.....	FF	EE
Vermont.....	AA	BB	Middle Atlantic Division.....	58.4	48.7
Massachusetts.....	1.6	7.7	New York.....	43.7	33.4
Middle Atlantic Division.....	7.2	6.4	New Jersey.....	10.2	10.9
New York.....	5.4	6.0	Pennsylvania.....	4.5	4.4
Pennsylvania.....	AA	(NA)			
North Central Region.....	27.4	21.7	North Central Region.....	94.7	70.1
East North Central Division.....	14.8	9.6	East North Central Division.....	65.2	46.9
Ohio.....	EE	5.5	Ohio.....	3.2	2.5
Illinois.....	AA	2.6	Indiana.....	3.8	1.1
West North Central Division.....	12.5	12.2	Illinois.....	46.5	32.8
Missouri.....	CC	BB	Michigan.....	8.6	6.8
Kansas.....	6.5	CC	Wisconsin.....	3.2	3.7
South Region.....	3.4	1.9	West North Central Division.....	29.4	23.2
South Atlantic Division.....	AA	(NA)	Minnesota.....	4.3	2.6
Georgia.....	AA	(NA)	Missouri.....	24.2	20.1
West Region.....	3.4	1.8	South Region.....	16.1	7.9
Pacific Division.....	BB	AA	South Atlantic Division.....	6.8	3.1
California.....	BB	1.7	Virginia.....	AA	(NA)
			North Carolina.....	AA	(NA)
			Georgia.....	3.5	2.4
			East South Central Division.....	4.7	2.4
			Tennessee.....	AA	AA
			Alabama.....	BB	(NA)
			West South Central Division.....	4.5	2.4
			Texas.....	BB	1.7
			West Region.....	20.1	12.3
			Mountain Division.....	3.1	(NA)
			Arizona.....	BB	(NA)
			Pacific Division.....	17.0	EE
			California.....	17.0	10.4
BLANKBOOK MAKING (27821)					
United States.....	320.1	186.8			
Northeast Region.....	143.8	82.1			
New England Division.....	45.6	26.5			
Massachusetts.....	27.3	15.0			
Rhode Island.....	BB	(NA)			
Connecticut.....	16.1	EE			
Middle Atlantic Division.....	98.3	55.6			
New York.....	51.6	27.6			
New Jersey.....	34.2	21.6			
Pennsylvania.....	12.5	6.5			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
EDITION, LIBRARY, AND OTHER HARD COVER BOOK-BINDING (27891)			OTHER BOOK AND PAMPHLET BINDING AND RELATED BINDING WORK (27892)--Continued		
United States.....	147.6	167.4	West Region.....	10.9	9.7
Northeast Region.....	52.9	59.0	Mountain Division.....	1.2	(NA)
New England Division.....	6.0	6.8	Pacific Division.....	9.7	CC
Massachusetts.....	3.9	5.7	California.....	8.4	8.3
Connecticut.....	1.6	(NA)			
Middle Atlantic Division.....	46.9	52.2	LITHOGRAPHIC PLATES (27951)		
New York.....	19.7	26.6	United States.....	112.3	(NA)
New Jersey.....	18.2	17.8	Northeast Region.....	47.5	(NA)
Pennsylvania.....	9.1	7.8	New England Division.....	2.9	(NA)
North Central Region.....	68.3	84.1	Massachusetts.....	AA	(NA)
East North Central Division.....	46.2	69.1	Middle Atlantic Division.....	44.6	(NA)
Ohio.....	4.4	3.8	New York.....	26.5	(NA)
Indiana.....	BB	13.0	New Jersey.....	15.6	(NA)
Illinois.....	31.3	(NA)	Pennsylvania.....	2.4	(NA)
Michigan.....	4.1	4.3	North Central Region.....	45.2	(NA)
Wisconsin.....	AA	1.3	East North Central Division.....	33.1	(NA)
West North Central Division.....	22.1	15.0	Ohio.....	6.4	(NA)
Minnesota.....	AA	AA	Illinois.....	13.6	(NA)
Missouri.....	18.9	12.7	Michigan.....	5.4	(NA)
Kansas.....	AA	(NA)	Wisconsin.....	7.3	(NA)
South Region.....	17.0	16.9	West North Central Division.....	12.1	(NA)
South Atlantic Division.....	EE	10.1	Minnesota.....	BB	(NA)
Maryland.....	BB	4.6	Missouri.....	9.0	(NA)
Virginia.....	BB	(NA)	South Region.....	15.2	(NA)
North Carolina.....	2.3	AA	South Atlantic Division.....	8.4	(NA)
Florida.....	AA	1.9	Maryland.....	6.0	(NA)
East South Central Division.....	BB	2.5	East South Central Division.....	1.1	(NA)
Tennessee.....	BB	BB	West South Central Division.....	5.7	(NA)
West South Central Division.....	3.0	4.4	Texas.....	CC	(NA)
Texas.....	2.4	3.7	West Region.....	4.5	(NA)
West Region.....	9.4	7.5	Pacific Division.....	BB	(NA)
Mountain Division.....	2.2	1.6	California.....	BB	(NA)
Utah.....	1.3	1.0			
Pacific Division.....	7.2	5.9	LITHOGRAPHIC SERVICES (27952)		
California.....	CC	5.0	United States.....	131.6	(NA)
OTHER BOOK AND PAMPHLET BINDING AND RELATED BINDING WORK (27892)			Northeast Region.....	34.7	(NA)
United States.....	164.8	135.4	New England Division.....	8.7	(NA)
Northeast Region.....	78.2	70.9	Massachusetts.....	3.1	(NA)
New England Division.....	12.6	7.1	Rhode Island.....	AA	(NA)
New Hampshire.....	AA	(NA)	Connecticut.....	4.3	(NA)
Massachusetts.....	9.5	4.3	Middle Atlantic Division.....	26.0	(NA)
Connecticut.....	AA	2.6	New York.....	13.4	(NA)
Middle Atlantic Division.....	65.6	63.8	New Jersey.....	6.7	(NA)
New York.....	41.9	47.6	Pennsylvania.....	5.9	(NA)
New Jersey.....	11.8	4.9	North Central Region.....	64.1	(NA)
Pennsylvania.....	11.9	11.3	East North Central Division.....	49.4	(NA)
North Central Region.....	53.4	39.4	Ohio.....	11.7	(NA)
East North Central Division.....	47.5	31.4	Illinois.....	28.3	(NA)
Ohio.....	5.4	3.0	Michigan.....	BB	(NA)
Indiana.....	3.5	3.4	Wisconsin.....	4.0	(NA)
Illinois.....	30.4	19.6	West North Central Division.....	14.7	(NA)
Michigan.....	6.4	4.5	Minnesota.....	5.2	(NA)
Wisconsin.....	1.8	(NA)	Missouri.....	7.9	(NA)
West North Central Division.....	5.9	8.1	South Region.....	19.8	(NA)
Missouri.....	4.7	3.0	South Atlantic Division.....	9.8	(NA)
South Region.....	22.3	15.3	Maryland.....	1.0	(NA)
South Atlantic Division.....	15.8	9.3	District of Columbia.....	2.1	(NA)
Maryland.....	BB	3.3	Virginia.....	2.2	(NA)
District of Columbia.....	1.1	1.1	North Carolina.....	1.1	(NA)
North Carolina.....	AA	1.0	Florida.....	2.4	(NA)
Georgia.....	CC	BB	East South Central Division.....	7.1	(NA)
East South Central Division.....	1.5	AA	Kentucky.....	AA	(NA)
Tennessee.....	AA	AA	Tennessee.....	CC	(NA)
West South Central Division.....	5.0	BB	West South Central Division.....	2.9	(NA)
Texas.....	4.6	3.7	Texas.....	2.2	(NA)
			West Region.....	13.0	(NA)
			Pacific Division.....	EE	(NA)
			California.....	11.2	(NA)

See footnotes on next page.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 6B)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2771-	Greeting card publishing.....mil. dol..	583.5	533.3	498.9	531.1	488.6	441.4	310.2	276.6
27711	Greeting cards, publishers' sales:								
	Quantity.....million copies sold..	5.3	(NA)	(NA)	(NA)	(NA)	4.9	5.4	5.1
	Value.....mil. dol..	510.8	469.7	439.5	464.0	423.8	381.4	262.8	234.0
27712	Greeting cards, printing only.....do....	48.8	59.5	(58.1)	53.7	51.0	44.0	39.9	37.9
27710	Greeting card publishing, n.s.k.....do....	23.9	(4.1)	(1.3)	13.4	13.8	16.0	7.5	4.7
2782-	Blankbooks and looseleaf binders.....do....	566.2	(S)	(S)	438.2	386.9	362.3	252.0	213.6
27821	Blankbook making.....do....	320.1	(S)	(S)	230.0	192.5	186.8	124.3	118.5
27822	Looseleaf binders and devices.....do....	209.9	205.8	194.1	186.5	172.4	153.8	119.6	95.2
27820	Blankbooks and looseleaf binders, n.s.k.....do....	36.1	(12.4)	(15.1)	21.7	22.0	21.7	8.1	-
2789-	Bookbinding and related work.....do....	369.2	(S)	(S)	327.2	332.5	337.5	243.2	191.0
27891	Edition, library, other hard-cover bookbinding.....do....	147.6	(S)	(S)	151.1	157.2	167.4	109.3	83.3
27892	Other book, pamphlet, and related binding work.....do....	164.8	(S)	(S)	136.6	139.1	135.4	117.6	95.8
27890	Bookbinding and related work, n.s.k.....do....	56.9	54.0	58.2	39.5	36.2	34.7	16.3	11.9
27910	Typesetting.....do....	508.7	(S)	(S)	428.3	373.3	362.1	249.6	175.5
27930	Photoengraving, plates made for others.....do....	221.3	180.9	203.1	271.9	249.5	237.1	214.7	208.5
27940	Electrotyping and stereotyping duplicate plates made for others.....do....	35.5	37.0	45.5	72.3	69.3	61.4	71.9	81.5
2795-	Lithographic platemaking services.....do....	263.0	246.7	(241.2)	231.5	191.5	151.2	129.5	68.0
27951	Lithographic plates.....do....	112.3	246.7	(241.2)	231.5	191.5	151.2	129.5	68.0
27952	Lithographic services.....do....	131.6							
27950	Lithographic platemaking services, n.s.k.....do....	19.1							

- Represents zero. (NA) Not available. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

TABLE 7. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Delivered cost	
		(million dollars)	
		1972	1967
INDUSTRY 2782.--BLANKBOOKS AND LOOSELEAF BINDERS			
	Materials, parts, and supplies, total.....	188.2	127.0 *
262100	Paper (newsprint, book, bond, cover, coated, tissue, groundwood, ledger, writing, file folder, and tag stock).....	68.9	35.7
263105	Paperboard, excluding that used for shipping.....	16.9	16.1
229507	Coated or impregnated woven and nonwoven fabric, except rubberized.....	8.0	6.7
307918	Plastic film or sheeting.....	15.1	8.4
331094	Steel, strip, and wire.....	4.4	9.9
278227	Looseleaf metal parts.....	15.0	(NA)
970099	All other materials and components, parts, containers, and supplies consumed, including ink, metals, type, etc.....	39.1	36.4
972000	Materials not specified ¹	20.8	13.8
INDUSTRY 2789.--BOOKBINDING AND RELATED WORK			
	Materials, parts, and supplies, total.....	66.6	66.5
262100	Paper (newsprint, book, bond, cover, coated, tissue, groundwood, ledger, writing, file folder, and tag stock).....	11.8	10.2
263105	Paperboard, excluding that used for shipping.....	9.7	6.5
229507	Coated or impregnated woven and nonwoven fabric, except rubberized.....	8.4	7.1
307918	Plastic film or sheeting.....	1.2	} 24.6
331094	Steel, strip, and wire.....	1.3	
278229	Looseleaf metal parts.....	1.4	
970099	All other materials and components, parts, containers, and supplies consumed, including ink, metals, type, etc.....	15.2	
972000	Materials not specified ¹	17.6	18.1

(NA) Not available.

¹This item represents the total cost of materials for establishments that did not report detailed materials data.

MAJOR GROUP 28

Chemicals and Allied Products

- 28A Industrial inorganic chemicals
- 28B Plastics materials, synthetic rubber, and man-made fibers
- 28C Drugs
- 28D Soaps, cleaners, and toilet goods
- 28E Paints and allied products
- 28F Industrial organic chemicals
- 28G Agricultural chemicals
- 28H Miscellaneous chemical products

This major group includes establishments producing basic chemicals and establishments manufacturing products by predominantly chemical processes. Establishments classified in this major group manufacture three general classes of products: (1) Basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture such as synthetic fibers, plastics materials, dry colors, and pigments; (3) finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries such as paints, fertilizers, and explosives. The mining of natural rock salt is classified in mining industries. Establishments primarily engaged in manufacturing nonferrous metals and high-percentage ferroalloys are classified in Major Group 33; silicon carbide in Major Group 32; baking powder, other leavening compounds, and starches in Major Group 20; and artists' colors in Major Group 39. Establishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products, but not engaged in manufacturing chemicals and allied products, are classified in trade industries.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees ¹		Production workers			Value added by manufacture ²	Cost of materials ³	Value of industry shipments ³	Capital expenditures, new ⁴
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: ⁵											
1972 ⁶	12,403	4,980	995.0	10,908.2	525.0	1,053.7	4,753.9	32,413.9	25,085.5	57,349.6	2,728.4
1967 ⁶	12,521	4,878	982.7	7,932.1	541.4	1,086.1	3,555.2	23,550.1	18,821.2	42,148.3	2,936.1
1963 ⁶	12,575	4,368	853.1	6,013.6	474.1	963.4	2,779.9	17,586.1	14,255.1	31,772.7	1,545.7
1958 ⁶	11,837	4,029	783.9	4,604.5	453.1	908.4	2,242.1	12,308.0	(NA)	21,026.0	1,243.9
1954 ⁶	11,074	3,959	795.9	3,782.8	498.7	1,011.0	1,994.2	9,546.9	(NA)	(NA)	926.6
Administrative and auxiliary units:											
1972 ⁷	978	549	158.5	2,177.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 ⁷	722	530	141.3	1,489.1	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 ⁷	579	383	115.7	1,043.8	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 ⁷	465	276	85.6	664.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 ⁷	(NA)	(NA)	62.0	405.8	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	11,425	4,431	836.5	8,730.5	525.0	1,053.7	4,753.9	32,413.9	25,085.5	57,349.6	2,728.4
1967.....	11,799	4,348	841.4	6,443.0	541.4	1,086.1	3,555.2	23,550.1	18,821.2	42,148.3	2,936.1
1963.....	11,996	3,985	737.4	4,969.8	474.1	963.4	2,779.9	17,586.1	14,255.1	31,772.7	1,545.7
1958.....	11,372	3,753	698.3	3,940.5	453.1	908.4	2,242.1	12,308.0	(NA)	21,026.0	1,243.9
1954.....	11,074	3,959	733.9	3,770.0	498.7	1,011.0	1,994.2	9,546.9	(NA)	(NA)	926.6
Operating manufacturing establishments:											
1971 ⁸	(X)	(X)	848.9	8,259.9	528.6	1,060.5	4,451.2	29,431.5	22,489.8	51,873.1	2,937.7
1970 ⁸	(X)	(X)	881.0	8,003.8	555.7	1,120.6	4,327.0	27,929.6	21,781.8	49,355.2	3,110.7
1969 ⁸	(X)	(X)	882.6	7,602.5	565.6	1,150.9	4,181.1	27,318.9	21,281.1	48,269.8	2,843.4
1968 ⁸	(X)	(X)	856.3	6,938.5	550.8	1,116.0	3,845.4	25,810.4	19,984.0	45,622.4	2,878.6
1966 ⁸	(NA)	(NA)	822.4	6,129.3	528.5	1,077.4	3,400.2	22,655.6	18,516.8	40,780.4	2,898.6
1965 ⁸	(NA)	(NA)	780.3	5,594.4	502.4	1,022.5	3,104.8	20,955.6	16,804.5	37,478.8	2,482.0
1964 ⁸	(NA)	(NA)	749.2	5,244.3	479.9	986.0	2,927.5	19,165.8	15,218.4	34,268.1	1,862.2
1962 ⁸	(NA)	(NA)	727.3	4,755.0	470.1	953.0	2,647.2	16,009.1	13,345.4	29,357.3	1,381.8
1961 ⁸	(NA)	(NA)	712.9	4,523.6	460.4	932.1	2,520.6	14,804.5	12,494.6	27,245.4	1,500.1
1960 ⁸	(NA)	(NA)	725.6	4,421.7	469.6	943.5	2,473.2	14,415.1	(NA)	(NA)	1,285.3
1959 ⁸	(NA)	(NA)	717.7	4,233.4	470.9	949.0	2,409.5	14,335.7	(NA)	(NA)	1,102.7
1957 ⁸	(NA)	(NA)	757.2	4,035.7	505.6	1,018.1	2,322.3	12,372.9	(NA)	(NA)	1,264.4
1956 ⁸	(NA)	(NA)	754.6	3,852.0	514.9	1,040.2	2,266.3	11,894.3	(NA)	(NA)	1,081.7
1955 ⁸	(NA)	(NA)	741.1	3,566.4	507.9	1,027.0	2,116.8	11,107.9	(NA)	(NA)	761.2
1953 ⁸	(NA)	(NA)	768.4	3,400.1	536.1	1,093.8	2,102.6	9,320.3	(NA)	(NA)	944.0
1952 ⁸	11,007	(NA)	739.4	3,116.8	513.3	1,062.5	1,903.6	8,539.3	(NA)	(NA)	1,019.0
1951 ⁸	10,909	(NA)	702.9	2,784.3	497.5	1,028.7	1,733.0	8,164.5	(NA)	(NA)	980.5
1950 ⁸	10,339	(NA)	642.5	2,342.0	456.6	954.8	1,470.8	7,236.6	(NA)	(NA)	603.0
1949 ⁸	(NA)	(NA)	612.0	2,092.1	440.1	921.8	1,319.5	5,847.5	(NA)	(NA)	598.1
1947.....	10,019	(NA)	626.4	1,898.5	464.1	974.7	1,236.0	5,317.0	(NA)	(NA)	805.0
1939 ⁹	8,839	(NA)	(NA)	(NA)	275.7	(NA)	342.1	1,818.9	(NA)	(NA)	(NA)
1937 ^{10 11}	8,337	(NA)	(NA)	(NA)	303.3	(NA)	366.3	1,731.6	(NA)	(NA)	(NA)
1935.....	8,225	(NA)	(NA)	(NA)	293.5	(NA)	1,281.5	1,363.0	(NA)	(NA)	(NA)
1933.....	7,297	(NA)	302.0	305.8	254.0	(NA)	216.8	1,120.6	(NA)	(NA)	(NA)
1931 ¹²	8,324	(NA)	(NA)	(NA)	248.2	(NA)	259.4	1,358.9	(NA)	(NA)	(NA)
1929.....	9,327	(NA)	381.6	550.0	307.4	(NA)	352.3	1,737.3	(NA)	(NA)	(NA)
1927 ¹³	8,594	(NA)	347.8	491.9	278.1	(NA)	319.0	1,473.6	(NA)	(NA)	(NA)
1925 ¹⁴	8,160	(NA)	(NA)	(NA)	260.9	(NA)	296.8	1,320.1	(NA)	(NA)	(NA)
1923 ¹⁵	8,253	(NA)	340.0	459.3	264.3	(NA)	285.9	1,184.5	(NA)	(NA)	(NA)
1921.....	8,208	(NA)	278.9	369.1	212.3	(NA)	218.4	833.7	(NA)	(NA)	(NA)
1919.....	10,688	(NA)	387.9	497.2	293.5	(NA)	306.4	1,197.9	(NA)	(NA)	(NA)
1914.....	10,698	(NA)	269.2	192.1	207.7	(NA)	106.0	456.9	(NA)	(NA)	(NA)
1909.....	10,380	(NA)	235.4	143.9	185.0	(NA)	82.0	401.4	(NA)	(NA)	(NA)
1904.....	8,370	(NA)	191.2	102.5	158.4	(NA)	56.0	286.2	(NA)	(NA)	(NA)
1899 ¹⁶	7,669	(NA)	169.9	79.6	143.6	(NA)	50.9	211.8	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

²For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

³The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

⁴The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

⁵See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

⁶The figures for 1949 to 1972 include data for Government-owned plants operated by private firms for the account of the Federal Government. See text for further explanation.

⁷In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative offices and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and prior to 1949.

⁸These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

⁹The figures prior to 1939 include data for establishments primarily engaged in manufacture of electrometallurgical products, included from 1939 in the "Primary metal" industries. Value added by manufacture for 1939, include data for these establishments and on a basis comparable with earlier years, was \$1,837.5 million.

¹⁰The figures for 1899 to 1935, but not for later years, include data for establishments primarily engaged in mining of rock salt or in smelting and refining of aluminum. Value added by manufacture for 1937, including data for these establishments and on a basis comparable with 1935, was \$1,759.1 million.

Footnotes continued on next page.

TABLE 1. General Statistics: 1972 and Earlier Years—Continued

Footnotes for table 1 --Continued

- ¹The figures for 1899 to 1935, but not for later years, include data for woods employees of the Gum naval stores industry. Woods employees in 1937 for which data are not included in the figures were reported as follows: Production and related workers, 30,880 and wages \$8.6 million.
- ²The figures for 1899 to 1931 do not include data for establishments primarily engaged in manufacture of ethyl alcohol, included for these years in the figures for the "Food and kindred products" industries.
- ³The figures for 1899 to 1927 include data for establishments other than petroleum refineries engaged in the manufacture of lubricating oils, which are included for later years in the series for the petroleum and coal products industries.
- ⁴The figures for 1899 to 1925 include data for establishments primarily engaged in manufacturing of vegetable cooking oils, included for later years in the series for the food and kindred products industries.
- ⁵The figures for 1899 to 1923, but not for later years, include data for certain establishments primarily engaged in manufacture of rubber cement. Value added by manufacture for 1925, including data for these establishments and on a basis comparable with 1923, was \$1,321.2 million.
- ⁶The figures for 1899 only include data for establishments primarily engaged in manufacture of candles. Value added by manufacture for 1904, including data for these establishments and on a basis comparable with 1899, was \$287.2 million.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ³	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
28	CHEMICALS AND ALLIED PRODUCTS,	11 425	4 431	836.5	8 730.5	525.0	1 053.7	4 753.9	32 413.9	25 065.5	57 349.6	2 728.4	841.4	23 550.1
	NORTHEAST REGION	3 261	1 272	232.1	2 427.3	141.3	283.3	1 271.3	8 902.8	6 029.7	14 086.5	521.3	243.5	6 642.9
	NEW ENGLAND DIVISION	656	217	33.6	337.0	19.0	39.1	170.0	1 112.2	929.7	2 062.0	69.3	33.4	837.9
	MAINE	33	13	.7	5.9	.5	1.1	3.5	15.6	23.2	38.1	1.3	1.0	11.1
	NEW HAMPSHIRE	23	4	.7	5.8	.5	1.0	3.4	13.1	21.0	33.3	1.2	.5	7.5
	VERMONT	19	5	.3	2.2	.2	.4	1.3	7.1	4.3	11.9	.4	.4	6.2
	MASSACHUSETTS	350	115	16.4	173.2	9.2	18.9	85.0	543.3	503.0	1 104.3	33.4	17.0	367.1
	RHODE ISLAND	76	21	2.8	24.4	1.6	3.1	11.4	48.6	59.5	110.0	5.2	3.0	47.2
	CONNECTICUT	155	59	12.7	125.6	7.0	14.5	65.3	434.4	317.5	764.1	27.0	11.5	378.8
	MIDDLE ATLANTIC DIVISION	2 605	1 055	198.6	2 090.3	122.3	244.2	1 101.3	7 740.5	5 100.0	12 824.5	452.0	209.6	5 819.5
	NEW YORK	1 002	300	53.1	531.6	34.9	68.6	297.4	2 004.3	1 242.4	3 227.6	115.8	63.4	1 636.3
	NEW JERSEY	968	485	57.6	1 072.4	57.5	116.5	542.1	4 009.6	2 664.2	6 633.5	231.4	96.8	2 822.1
	PENNSYLVANIA	635	262	47.9	486.3	29.8	58.7	261.9	1 776.7	1 193.4	2 903.3	104.8	49.5	1 351.1
	NORTH CENTRAL REGION	3 195	1 254	212.1	2 255.5	124.2	248.0	1 134.6	8 704.0	6 372.9	15 002.3	553.6	222.7	6 439.4
	EAST NORTH CENTRAL DIVISION	2 368	952	169.7	1 845.6	98.1	196.3	916.2	6 912.8	4 562.4	11 625.5	446.4	175.4	5 054.7
	OHIO	702	294	48.0	490.1	28.7	58.3	266.9	1 977.7	1 568.5	3 524.1	118.7	47.7	1 356.6
	INDIANA	221	81	24.0	311.6	11.3	22.3	111.2	1 244.9	511.1	1 735.2	53.9	24.7	833.3
	ILLINOIS	834	359	52.3	537.9	30.7	61.7	264.8	2 103.1	1 744.5	3 847.5	170.6	3.7	1 565.6
	MICHIGAN	384	143	34.1	400.3	21.2	41.7	220.0	1 214.4	894.0	2 101.8	91.0	37.2	1 034.2
	WISCONSIN	227	70	10.5	100.7	6.3	12.4	53.3	372.8	243.4	615.0	12.1	9.5	257.4
	WEST NORTH CENTRAL DIVISION	827	302	42.4	409.9	26.1	51.7	218.4	1 791.2	1 410.5	3 174.8	106.7	46.3	1 385.1
	MINNESOTA	177	48	6.3	64.9	3.8	7.5	30.0	267.0	211.4	474.8	11.2	6.1	225.6
	IOA	111	39	4.9	48.8	3.0	6.1	25.1	340.1	255.1	671.1	25.2	5.3	243.0
	MISSOURI	373	146	22.8	211.9	13.9	27.2	114.8	723.6	620.7	1 335.4	37.0	22.3	545.5
	NORTH DAKOTA	5	1	.4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(-)
	NEBRASKA	45	19	2.2	20.3	1.2	2.4	9.7	42.7	70.7	161.1	5.0	2.3	91.7
	KANSAS	103	49	6.1	62.6	4.0	8.1	37.2	314.7	219.1	528.0	27.2	10.1	270.3
	SOUTH REGION	3 171	1 285	329.4	3 411.5	222.2	448.4	2 021.6	12 456.6	10 717.8	23 179.9	1 492.2	314.9	6 645.2
	SOUTH ATLANTIC DIVISION	1 489	613	163.5	1 593.7	112.4	228.0	950.9	5 244.7	4 219.8	9 509.2	639.9	160.6	3 090.1
	DELAWARE	40	22	.7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	(0)
	MARYLAND	177	84	13.9	129.8	9.3	19.7	76.7	415.0	391.1	810.6	56.0	17.6	422.5
	DISTRICT OF COLUMBIA	7	2	.3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	(0)
	VIRGINIA	141	57	33.0	329.6	22.9	45.3	197.2	844.4	569.0	1 419.9	61.0	40.9	762.0
	WEST VIRGINIA	69	39	20.9	234.1	15.1	31.7	156.2	949.8	618.6	1 572.2	(0)	22.5	836.3
	NORTH CAROLINA	237	112	27.0	230.3	19.1	38.5	143.2	887.0	743.5	1 630.1	188.7	17.7	370.6
	SOUTH CAROLINA	117	53	27.8	270.0	19.1	38.4	155.2	813.7	549.6	1 396.3	126.1	19.9	474.6
	GEORGIA	302	129	13.7	123.4	8.2	16.6	59.1	515.3	511.8	1 027.2	30.0	11.7	306.1
	FLORIDA	399	115	19.2	175.3	13.4	28.2	109.8	516.3	586.1	1 104.6	59.9	20.7	466.1
	EAST SOUTH CENTRAL DIVISION	562	253	79.2	787.8	53.2	106.8	467.7	2 497.6	2 207.2	4 694.8	202.8	82.2	2 122.5
	KENTUCKY	123	44	12.9	135.8	8.6	17.6	82.4	487.7	595.7	1 027.0	36.6	13.3	391.6
	TENNESSEE	216	99	50.5	506.0	33.5	66.4	291.6	1 396.0	1 006.1	2 395.6	99.3	52.1	1 153.5
	ALABAMA	141	60	10.5	99.9	7.2	14.6	62.0	389.3	451.0	841.5	51.1	11.7	410.2
	MISSISSIPPI	82	30	5.4	46.1	3.9	8.2	31.7	224.5	204.4	430.7	15.8	5.2	157.5
	WEST SOUTH CENTRAL DIVISION	1 120	419	86.7	1 029.9	56.6	112.7	603.1	4 714.3	4 290.7	8 975.9	649.6	72.1	2 872.2
	ARKANSAS	70	19	4.3	40.6	3.2	6.0	27.5	131.9	135.3	268.6	16.1	4.1	76.9
	LOUISIANA	212	98	24.4	303.5	16.9	35.1	194.0	1 349.6	1 256.2	2 604.0	222.2	19.1	679.5
	OKLAHOMA	98	15	1.4	12.4	1.0	1.8	7.0	43.0	35.7	76.5	3.0	1.0	14.1
	TEXAS	740	287	56.6	673.4	35.5	69.8	374.6	3 189.8	2 863.2	6 026.8	414.3	47.9	2 076.7

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
28	CHEMICALS AND ALLIED PRODUCTS-- CONTINUED													
	WEST REGION	1 798	620	62.8	636.3	37.3	74.0	326.3	2 350.6	1 965.2	4 280.8	161.4	60.5	1 582.9
	MOUNTAIN DIVISION	276	82	9.4	91.0	6.1	12.3	53.5	343.4	344.3	682.2	38.9	9.6	240.1
	MONTANA	19	5	0.4	3.7	0.3	0.6	2.3	9.7	14.9	24.6	(D)	0.3	8.2
	IDAHO	20	6	2.8	34.1	1.3	3.7	21.8	106.2	154.8	260.9	4.8	4.4	110.7
	COLORADO	88	25	1.9	17.6	1.1	2.0	8.3	85.8	61.1	146.9	8.4	1.8	50.7
	NEW MEXICO	21	5	0.4	3.4	0.2	0.4	1.4	10.6	8.6	19.1	1.0	0.3	4.9
	ARIZONA	59	14	1.7	12.6	1.1	2.2	7.5	60.9	42.2	98.7	8.9	1.0	16.2
	UTAH	44	15	1.4	10.5	0.9	2.0	6.0	30.0	25.5	54.5	2.2	0.9	12.9
	NEVADA	18	9	0.8	7.9	0.6	1.3	5.5	35.5	28.2	61.8	1.6	0.7	24.3
	PACIFIC DIVISION	1 522	538	53.4	545.3	31.2	61.7	272.8	2 007.2	1 620.8	3 598.6	122.5	50.7	1 338.4
	WASHINGTON	127	41	5.7	63.7	3.3	6.5	34.2	181.9	93.4	273.6	6.5	6.4	166.0
	OREGON	92	34	2.0	20.3	1.3	2.7	11.3	73.4	93.1	165.9	6.6	2.0	50.0
	CALIFORNIA	1 277	456	45.2	455.4	26.3	52.0	224.3	1 725.7	1 409.9	3 109.1	106.1	42.0	1 116.8
	HAWAII	21	5	0.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	(D)
281	INDUSTRIAL INORGANIC CHEMICALS	1 049	510	99.5	1 078.5	63.9	127.8	631.1	3 343.1	2 779.4	6 132.7	333.4	(NA)	(NA)
	NORTHEAST REGION	232	128	18.9	198.7	12.5	25.5	122.1	609.5	564.7	1 174.5	48.8	(NA)	(NA)
	NEW ENGLAND DIVISION	42	21	1.9	19.5	1.1	2.4	10.4	58.1	34.3	94.0	3.5	(NA)	(NA)
	MASSACHUSETTS	18	11	1.5	15.4	0.8	1.7	7.8	45.5	23.4	69.9	2.8	(NA)	(NA)
	RHODE ISLAND	8	5	0.2	1.4	0.1	0.1	0.6	1.6	3.1	5.4	(Z)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	190	107	17.0	179.2	11.4	23.2	111.7	551.4	530.4	1 080.5	45.3	(NA)	(NA)
	NEW YORK	37	16	4.9	53.5	3.6	7.0	35.3	139.6	116.2	254.8	15.8	(NA)	(NA)
	NEW JERSEY	76	51	6.4	70.3	4.2	8.6	42.9	207.1	216.1	423.3	14.8	(NA)	(NA)
	PENNSYLVANIA	77	40	5.7	55.4	3.6	7.6	33.5	204.6	198.0	402.4	14.7	(NA)	(NA)
	NORTH CENTRAL REGION	264	133	21.3	226.9	14.1	28.1	141.0	659.1	646.2	1 313.1	68.6	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	200	98	16.7	180.7	11.0	22.0	111.2	517.4	500.6	1 022.9	55.0	(NA)	(NA)
	OHIO	91	40	8.9	96.9	5.6	10.8	56.2	253.0	222.5	478.8	23.4	(NA)	(NA)
	INDIANA	21	10	0.9	9.4	0.7	1.4	6.4	54.8	47.6	103.2	7.6	(NA)	(NA)
	ILLINOIS	52	32	3.8	39.2	2.6	5.7	25.2	114.2	116.8	233.8	15.8	(NA)	(NA)
	MICHIGAN	23	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	64	35	4.6	46.2	3.1	6.1	29.8	141.7	145.6	290.1	13.6	(NA)	(NA)
	IOWA	9	5	0.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	20	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	20	14	1.4	14.1	0.9	1.9	8.8	71.1	55.2	124.9	6.0	(NA)	(NA)
	SOUTH REGION	372	167	48.4	529.4	30.6	60.8	297.3	1 680.5	1 254.6	2 935.0	178.7	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	143	60	17.5	194.5	10.5	21.1	99.1	562.7	342.7	906.5	51.9	(NA)	(NA)
	DELAWARE	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND	20	13	2.6	24.3	1.7	3.8	16.0	63.7	68.4	133.9	8.8	(NA)	(NA)
	VIRGINIA	16	7	2.6	26.8	1.6	3.3	14.4	67.1	27.6	117.5	0.8	(NA)	(NA)
	WEST VIRGINIA	20	10	1.5	16.2	1.0	2.0	9.5	56.9	47.9	105.4	5.5	(NA)	(NA)
	NORTH CAROLINA	14	5	0.8	7.9	0.5	1.1	4.2	19.1	23.2	41.5	3.8	(NA)	(NA)
	SOUTH CAROLINA	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	30	13	1.5	14.5	1.1	2.4	9.5	58.1	72.0	131.5	7.6	(NA)	(NA)
	FLORIDA	27	6	0.5	4.6	0.3	0.7	3.0	17.3	18.9	35.9	9.0	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	85	43	17.6	185.2	10.7	21.2	98.3	633.9	391.1	1 027.8	39.6	(NA)	(NA)
	KENTUCKY	14	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	34	17	12.4	134.0	7.1	14.4	66.9	454.3	168.2	623.5	22.0	(NA)	(NA)
	ALABAMA	27	14	2.0	19.7	1.4	2.6	12.9	78.0	74.1	150.9	11.1	(NA)	(NA)
	MISSISSIPPI	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	144	64	13.3	140.7	9.5	18.6	99.9	483.9	520.9	1 000.7	87.2	(NA)	(NA)
	ARKANSAS	12	5	2.5	27.3	1.9	3.6	19.4	52.5	65.5	119.4	6.9	(NA)	(NA)
	LOUISIANA	40	19	4.7	54.3	3.4	6.8	40.1	202.4	202.4	401.6	33.8	(NA)	(NA)
	OKLAHOMA	13	5	0.5	4.5	0.3	0.6	2.4	14.2	7.8	21.4	0.6	(NA)	(NA)
	TEXAS	79	35	5.6	50.6	3.8	7.6	38.1	214.9	245.1	458.3	45.6	(NA)	(NA)
	WEST REGION	181	82	10.9	123.5	6.7	13.4	70.6	394.0	313.9	710.2	37.3	(NA)	(NA)
	MOUNTAIN DIVISION	54	22	3.7	43.3	2.3	4.7	26.0	138.6	172.6	312.5	20.4	(NA)	(NA)
	MONTANA	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	IDAHO	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	10	3	0.2	1.7	0.1	0.2	1.0	7.5	7.0	16.0	4.0	(NA)	(NA)
	NEW MEXICO	7	3	0.2	1.7	0.1	0.2	0.7	5.5	3.9	9.4	0.4	(NA)	(NA)
	ARIZONA	7	2	0.2	1.9	0.1	0.2	0.9	2.9	4.5	7.4	0.6	(NA)	(NA)
	UTAH	9	2	0.2	1.4	(Z)	0.1	0.4	6.0	4.2	10.0	0.1	(NA)	(NA)
	NEVADA	5	4	0.5	4.9	0.3	0.8	3.4	16.3	14.5	31.8	1.1	(NA)	(NA)
	PACIFIC DIVISION	127	60	7.3	80.2	4.4	8.7	44.7	255.4	141.2	397.7	16.9	(NA)	(NA)
	WASHINGTON	21	10	3.8	44.0	2.1	4.1	24.0	128.8	24.5	153.8	0.7	(NA)	(NA)
	OREGON	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	91	46	3.1	31.5	2.0	4.0	18.1	113.4	109.1	223.4	(D)	(NA)	(NA)
282	PLASTICS MATERIALS, SYNTHETICS	461	364	161.9	1 666.3	116.0	236.2	1 063.2	4 935.4	4 854.9	9 796.0	693.9	(NA)	(NA)
	NORTHEAST REGION	116	90	25.0	264.9	15.9	33.4	154.7	665.5	777.5	1 459.3	66.1	(NA)	(NA)
	NEW ENGLAND DIVISION	34	28	6.4	72.5	3.8	8.1	38.8	203.7	219.8	427.0	15.4	(NA)	(NA)
	NEW HAMPSHIRE	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	21	20	4.9	55.9	2.7	5.8	28.5	130.7	166.8	301.4	11.4	(NA)	(NA)
	CONNECTICUT	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	82	62	18.6	196.4	12.1	25.3	115.8	461.8	557.7	1 032.3	50.7	(NA)	(NA)
	NEW YORK	20	14	2.3	24.2	1.4	3.2	12.9	73.7	60.0	132.8	4.8	(NA)	(NA)
	NEW JERSEY	35	26	5.4	60.3	3.4	8.0	36.8	162.0	216.9	389.2	14.3	(NA)	(NA)
	PENNSYLVANIA	27	22	10.9	111.9	7.2	14.0	68.2	226.1	280.8	510.3	31.5	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
									(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)
282	PLASTICS MATERIALS, SYNTHETICS-- CONTINUED													
	NORTH CENTRAL REGION	110	81	17.4	194.8	12.3	26.0	127.7	709.7	700.1	1 368.2	91.3	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	96	70	15.9	180.3	11.3	23.8	119.0	644.3	644.7	1 267.6	81.0	(NA)	(NA)
	OHIO	37	30	7.0	73.8	5.1	11.1	51.8	240.0	306.1	539.5	22.4	(NA)	(NA)
	INDIANA	9	8	1.4	14.9	1.0	2.1	10.6	126.9	58.1	178.1	12.9	(NA)	(NA)
	ILLINOIS	27	19	2.6	28.3	1.8	4.0	19.1	112.5	156.3	266.1	29.0	(NA)	(NA)
	MICHIGAN	13	7	4.1	51.7	2.7	5.4	31.7	133.1	95.3	223.2	(U)	(NA)	(NA)
	WISCONSIN	10	6	.9	9.7	.6	1.3	5.9	31.9	29.0	60.7	(U)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	14	11	1.5	14.5	1.0	2.1	8.7	65.4	55.4	120.6	10.3	(NA)	(NA)
	MINNESOTA	4	4	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	IOWA	3	2	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MISSOURI	4	3	.2	1.5	.1	.2	.9	4.9	8.3	13.1	.1	(NA)	(NA)
	KANSAS	3	2	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	SOUTH REGION	178	154	117.0	1 175.6	86.3	173.8	765.7	3 446.6	3 236.4	6 692.1	525.5	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	85	75	73.1	706.4	54.9	111.5	466.5	1 994.8	1 609.2	3 643.8	359.3	(NA)	(NA)
	DELAWARE	6	5	4.4	48.8	3.0	5.9	29.6	179.4	137.1	314.7	(U)	(NA)	(NA)
	MARYLAND	5	5	2.9	24.5	2.3	5.3	16.3	43.1	40.4	85.1	(U)	(NA)	(NA)
	VIRGINIA	10	8	16.3	187.2	13.6	26.5	122.1	419.0	325.5	750.9	48.8	(NA)	(NA)
	WEST VIRGINIA	0	0	7.1	80.2	5.0	10.5	47.7	252.9	205.3	458.0	25.5	(NA)	(NA)
	NORTH CAROLINA	22	20	16.4	143.8	12.7	25.7	98.4	452.0	397.0	847.0	130.9	(NA)	(NA)
	SOUTH CAROLINA	15	15	17.2	156.8	13.1	26.9	104.5	458.7	387.2	876.6	115.4	(NA)	(NA)
	GEORGIA	11	8	1.1	8.0	.8	1.6	3.1	30.7	30.6	61.1	2.4	(NA)	(NA)
	FLORIDA	10	7	5.8	56.0	4.5	9.0	40.8	159.1	86.0	247.4	11.1	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	39	34	30.4	303.0	22.0	43.0	192.0	783.9	794.2	1 562.1	90.9	(NA)	(NA)
	KENTUCKY	10	9	4.5	52.1	3.3	6.3	33.9	191.8	169.3	356.5	(U)	(NA)	(NA)
	TENNESSEE	15	14	21.3	208.4	15.5	30.1	130.9	447.8	428.4	872.1	44.0	(NA)	(NA)
	ALABAMA	9	8	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MISSISSIPPI	5	3	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	54	45	13.5	166.2	9.4	19.3	107.3	608.0	833.0	1 486.2	75.3	(NA)	(NA)
	LOUISIANA	14	13	3.7	43.8	2.7	5.6	30.5	184.5	191.6	373.3	(L)	(NA)	(NA)
	TEXAS	35	29	9.7	121.2	6.6	13.5	75.9	476.5	625.0	1 090.1	62.9	(NA)	(NA)
	WEST REGION	57	39	2.5	27.1	1.5	3.1	15.1	113.5	140.9	256.5	11.1	(NA)	(NA)
	PACIFIC DIVISION	55	38	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	CALIFORNIA	51	37	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
283	DRUGS	1 078	425	129.9	1 413.3	67.0	132.3	583.1	6 130.9	1 972.2	8 018.5	245.3	(NA)	(NA)
	NORTHEAST REGION	373	161	60.0	668.2	32.7	65.0	305.1	3 390.2	970.4	4 326.7	136.0	57.9	2 323.3
	NEW ENGLAND DIVISION	55	12	2.2	20.5	1.1	2.2	7.9	68.2	29.5	99.8	2.0	3.8	84.2
	MASSACHUSETTS	29	5	.8	7.5	.4	.8	2.8	21.2	7.0	29.0	.7	.9	15.8
	CONNECTICUT	16	7	1.3	12.5	.6	1.3	4.9	46.0	21.4	69.3	1.3	2.9	48.8
	MIDDLE ATLANTIC DIVISION	318	149	57.8	647.7	31.6	62.8	297.2	3 322.0	940.9	4 226.9	133.9	54.1	2 253.0
	NEW YORK	129	54	16.4	166.7	10.3	20.4	89.9	917.8	281.1	1 192.7	23.1	20.3	690.7
	NEW JERSEY	118	63	28.4	329.4	13.5	27.4	129.9	1 497.6	422.6	1 903.5	82.0	21.7	921.0
	PENNSYLVANIA	71	32	13.0	151.7	7.0	15.0	77.3	906.6	237.3	1 130.8	28.9	12.2	641.3
	NORTH CENTRAL REGION	304	125	45.3	520.3	20.4	39.8	183.3	1 851.9	508.7	2 414.4	69.3	40.8	1 243.0
	EAST NORTH CENTRAL DIVISION	198	84	37.7	452.4	16.6	32.4	155.4	1 580.4	415.4	1 968.5	51.9	35.0	1 076.7
	OHIO	39	12	3.0	32.4	.9	1.8	6.5	93.1	33.2	120.6	4.4	3.2	67.2
	INDIANA	27	14	14.4	199.4	4.9	9.7	50.6	682.2	114.1	766.4	18.0	13.0	420.8
	ILLINOIS	78	31	11.9	126.2	5.1	10.2	42.2	426.0	127.3	550.2	14.0	10.5	283.0
	MICHIGAN	38	17	7.3	86.3	5.0	9.7	53.1	354.1	127.5	474.0	14.5	7.5	290.8
	WISCONSIN	16	10	1.0	8.0	.6	1.0	3.0	25.0	13.3	37.4	1.0	.8	14.1
	WEST NORTH CENTRAL DIVISION	106	41	7.7	67.9	3.9	7.4	27.9	271.5	183.3	445.9	17.4	5.9	160.3
	MINNESOTA	18	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	AA	(U)
	IOWA	16	5	1.0	9.9	.5	1.0	3.8	27.4	17.1	42.6	1.7	.6	19.4
	MISSOURI	49	21	4.7	40.3	2.5	4.7	17.9	176.0	127.9	298.3	8.2	3.4	107.0
	NEBRASKA	9	7	1.1	10.5	.5	1.0	3.6	45.9	21.2	66.6	3.7	.9	30.3
	KANSAS	12	5	.6	5.4	.3	.6	2.0	18.3	10.0	27.5	3.0	.4	5.9
	SOUTH REGION	219	63	14.6	128.2	8.2	16.2	54.4	616.9	240.1	854.2	20.4	13.0	392.1
	SOUTH ATLANTIC DIVISION	107	35	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	7.7	265.9
	MARYLAND	23	7	.7	4.4	.3	.7	1.6	19.8	6.3	25.2	.6	EE	(U)
	VIRGINIA	14	6	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	EE	(U)
	WEST VIRGINIA	1	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	CC	(U)
	NORTH CAROLINA	12	6	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	.7	44.2
	SOUTH CAROLINA	7	2	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	CC	(U)
	GEORGIA	18	5	1.0	7.8	.7	1.4	4.5	45.9	19.4	64.9	5.4	CC	(U)
	FLORIDA	30	5	1.1	10.0	.7	1.4	4.2	34.5	32.3	65.5	1.2	.7	11.1
	EAST SOUTH CENTRAL DIVISION	42	11	4.6	38.3	2.7	5.6	18.2	142.2	55.2	196.9	3.1	3.9	101.7
	TENNESSEE	15	7	3.3	27.3	1.7	3.6	11.3	111.2	30.8	139.4	1.7	2.7	73.8
	MISSISSIPPI	7	2	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	EE	(U)
	WEST SOUTH CENTRAL DIVISION	70	17	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	1.4	24.5
	LOUISIANA	12	2	.2	2.1	.1	.1	.8	2.9	4.8	7.7	.5	(NA)	(NA)
	TEXAS	46	15	1.4	14.3	.6	1.0	3.4	37.0	14.7	51.1	2.2	1.3	22.0
	WEST REGION	182	76	10.0	96.7	5.7	11.4	40.2	271.0	162.9	423.2	19.7	5.2	114.5
	MOUNTAIN DIVISION	24	8	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	.2	3.0
	COLORADO	10	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	AA	(U)
	ARIZONA	7	2	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	UTAH	4	3	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	PACIFIC DIVISION	158	68	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	5.9	110.0
	WASHINGTON	12	4	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	OREGON	7	4	.2	1.7	.1	.3	.8	4.6	3.2	7.0	(Z)	AA	(U)
	CALIFORNIA	138	60	8.7	87.3	4.7	9.4	34.5	245.9	147.3	383.9	17.9	FF	(U)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972											1967	
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
284	SOAPS, CLEANERS, TOILET GOODS, . . .	2 573	732	111.6	1 058.2	70.7	138.2	558.3	6 200.6	3 630.4	9 777.6	236.1	(NA)	(NA)
	NORTHEAST REGION	896	267	44.5	410.3	29.3	57.4	219.4	2 046.4	1 205.5	3 226.2	69.6	(NA)	(NA)
	NEW ENGLAND DIVISION	191	51	8.8	81.7	5.5	10.8	41.2	497.2	296.4	795.5	11.7	(NA)	(NA)
	NEW HAMPSHIRE	8	2	88	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MASSACHUSETTS	100	25	4.1	44.4	2.4	5.0	21.6	263.8	166.0	429.2	8.1	(NA)	(NA)
	RHODE ISLAND	28	6	.9	5.9	.7	1.2	3.4	14.6	20.4	33.9	.6	(NA)	(NA)
	CONNECTICUT	44	16	3.4	24.8	2.0	3.9	14.7	213.1	97.3	314.3	2.4	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	705	216	35.7	324.6	23.8	46.7	174.2	1 549.2	909.1	2 430.7	57.9	(NA)	(NA)
	NEW YORK	343	83	11.4	103.4	7.9	15.5	59.5	440.1	288.7	726.5	25.8	(NA)	(NA)
	NEW JERSEY	230	94	20.7	199.1	13.5	26.6	104.3	1 006.2	542.4	1 521.5	29.6	(NA)	(NA)
	PENNSYLVANIA	132	35	3.6	26.1	2.4	4.5	14.3	102.9	78.0	182.7	2.6	(NA)	(NA)
	NORTH CENTRAL REGION	694	211	38.2	368.3	24.2	47.1	203.2	2 695.1	1 521.6	4 209.7	109.8	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	523	157	28.6	277.4	17.6	34.3	149.7	2 070.7	1 158.2	3 230.3	87.1	(NA)	(NA)
	OHIO	121	38	7.0	74.9	4.5	9.2	43.7	732.0	289.8	1 023.9	29.3	(NA)	(NA)
	INDIANA	38	8	3.0	31.6	1.8	3.2	17.1	176.0	109.6	279.7	3.2	(NA)	(NA)
	ILLINOIS	215	79	12.3	111.2	8.3	15.6	62.3	816.2	565.1	1 385.9	42.5	(NA)	(NA)
	MICHIGAN	93	20	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WISCONSIN	56	12	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	171	54	9.6	90.9	6.5	12.8	53.5	624.4	363.4	979.4	22.6	(NA)	(NA)
	MINNESOTA	40	13	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	IOWA	25	6	.9	8.2	.5	1.1	4.3	123.4	64.7	187.5	3.5	(NA)	(NA)
	MISSOURI	77	26	4.7	41.9	3.3	6.7	26.0	228.2	136.0	362.2	7.4	(NA)	(NA)
	NEBRASKA	5	2	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	KANSAS	23	7	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	SOUTH REGION	556	140	16.8	158.0	9.8	18.9	74.3	787.7	519.7	1 300.7	38.0	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	292	88	12.3	119.8	7.2	13.9	56.2	597.2	371.4	922.4	29.1	(NA)	(NA)
	DELAWARE	3	1	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MARYLAND	30	16	3.4	36.5	2.3	4.4	22.3	195.6	128.1	324.9	8.4	(NA)	(NA)
	VIRGINIA	18	1	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	NORTH CAROLINA	51	20	2.1	18.7	1.0	1.8	5.3	65.9	48.8	113.1	8.5	(NA)	(NA)
	SOUTH CAROLINA	24	9	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	GEORGIA	61	29	3.3	31.8	1.4	2.7	10.3	176.1	106.0	279.0	4.2	(NA)	(NA)
	FLORIDA	83	12	1.1	9.7	.7	1.3	3.8	36.3	21.6	57.2	1.3	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	85	20	1.7	12.0	1.0	1.8	5.2	68.7	42.7	112.3	1.4	(NA)	(NA)
	TENNESSEE	47	14	1.3	9.5	.8	1.4	4.0	47.3	28.9	77.2	.8	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	191	32	2.8	26.2	1.7	3.2	13.0	101.8	105.5	266.1	7.5	(NA)	(NA)
	LOUISIANA	32	6	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	TEXAS	134	26	2.3	21.9	1.3	2.6	10.7	125.7	79.0	203.7	5.3	(NA)	(NA)
	WEST REGION	425	114	12.2	121.6	7.4	14.8	61.4	671.5	383.7	1 040.9	18.7	(NA)	(NA)
	MOUNTAIN DIVISION	55	9	1.1	7.8	.7	1.5	4.5	65.9	28.5	91.2	1.9	(NA)	(NA)
	COLORADO	20	4	.2	1.7	.1	.2	.7	15.7	5.1	20.1	(U)	(NA)	(NA)
	ARIZONA	15	2	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	UTAH	9	1	.2	1.1	(Z)	.1	.2	2.4	5.6	7.9	.1	(NA)	(NA)
	PACIFIC DIVISION	370	105	11.1	113.8	6.7	13.3	56.9	605.6	355.1	949.7	16.8	(NA)	(NA)
	CALIFORNIA	336	99	10.8	111.4	6.6	13.1	56.0	598.6	350.0	937.5	16.6	(NA)	(NA)
	HAWAII	7	4	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
285	PAINTS AND ALLIED PRODUCTS	1 599	687	65.9	647.2	36.2	73.2	295.1	1 791.7	2 058.4	3 821.8	61.5	(NA)	(NA)
	NORTHEAST REGION	457	180	17.2	168.5	10.1	20.0	81.7	457.1	490.7	945.9	24.5	18.1	354.1
	NEW ENGLAND DIVISION	85	29	2.0	17.2	1.0	1.8	7.3	46.8	46.0	92.6	1.3	(NA)	(NA)
	MASSACHUSETTS	52	21	1.5	12.3	.6	1.4	5.7	36.2	32.3	68.6	1.0	(NA)	(NA)
	RHODE ISLAND	10	3	.2	1.9	.1	.1	.5	3.8	4.7	8.4	.1	(NA)	(NA)
	CONNECTICUT	15	2	.2	2.1	.1	.2	.7	4.9	6.3	11.2	.1	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	372	151	15.2	151.3	9.1	18.2	74.5	410.4	444.8	853.3	23.3	(NA)	(NA)
	NEW YORK	151	47	4.4	42.3	2.6	5.4	20.8	101.1	120.0	219.2	6.7	(NA)	(NA)
	NEW JERSEY	153	68	6.4	63.2	3.9	7.7	32.4	189.9	208.5	394.8	13.0	(NA)	(NA)
	PENNSYLVANIA	68	36	4.5	45.8	2.6	5.1	21.3	119.4	116.2	237.4	3.6	(NA)	(NA)
	NORTH CENTRAL REGION	483	222	25.1	254.5	13.7	27.5	116.5	680.1	787.2	1 453.6	30.0	27.3	546.4
	EAST NORTH CENTRAL DIVISION	379	176	20.7	213.7	11.4	23.1	97.7	554.5	652.8	1 195.4	26.0	(NA)	(NA)
	OHIO	101	52	6.6	63.4	3.4	7.0	28.1	175.1	194.7	363.3	6.5	(NA)	(NA)
	INDIANA	30	11	1.3	14.0	.7	1.3	5.4	28.8	32.8	61.9	.6	(NA)	(NA)
	ILLINOIS	150	73	8.0	78.7	4.7	9.5	39.2	223.4	286.2	505.1	13.3	(NA)	(NA)
	MICHIGAN	67	31	3.9	47.6	2.2	4.4	21.4	98.9	115.4	213.6	5.1	(NA)	(NA)
	WISCONSIN	31	9	1.0	10.0	.5	.9	3.6	28.2	23.5	51.4	.5	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	104	46	4.4	40.9	2.3	4.4	18.9	125.7	134.4	258.3	4.0	(NA)	(NA)
	MINNESOTA	24	9	.8	7.3	.3	.6	2.8	20.9	18.8	39.3	.8	(NA)	(NA)
	IOWA	10	6	.6	5.3	.4	.7	3.1	26.6	26.2	52.7	.6	(NA)	(NA)
	MISSOURI	62	28	2.9	26.7	1.4	2.7	12.2	75.6	82.2	156.4	2.6	(NA)	(NA)
	KANSAS	6	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	SOUTH REGION	370	162	14.1	130.6	7.4	15.6	53.1	389.2	459.4	840.4	18.7	12.1	243.0
	SOUTH ATLANTIC DIVISION	185	77	6.6	61.2	3.4	7.1	22.9	173.3	213.0	382.4	9.1	(NA)	(NA)
	MARYLAND	28	18	1.6	14.9	1.0	2.0	5.4	34.8	47.5	81.4	1.8	(NA)	(NA)
	VIRGINIA	18	12	.6	5.0	.3	.7	2.2	14.0	16.5	30.4	.8	(NA)	(NA)
	NORTH CAROLINA	18	11	1.2	13.6	.5	1.1	3.9	32.1	39.2	70.7	3.0	(NA)	(NA)
	GEORGIA	37	17	1.6	15.5	.8	1.7	6.2	57.8	74.8	130.7	2.4	(NA)	(NA)
	FLORIDA	71	14	1.4	10.0	.6	1.3	4.0	29.7	30.2	59.5	1.0	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	64	33	3.1	31.2	1.7	3.9	13.7	99.8	102.8	201.4	5.0	(NA)	(NA)
	KENTUCKY	23	18	1.9	20.5	1.0	2.4	9.1	76.5	74.2	150.2	4.0	(NA)	(NA)
	TENNESSEE	19	7	.7	5.7	.4	.9	2.7	12.2	14.8	26.6	.5	(NA)	(NA)
	ALABAMA	14	6	.4	3.9	.2	.4	1.5	8.7	11.2	19.7	.3	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
285	PAINTS AND ALLIED PRODUCTS--CON. SOUTH REGION--CONTINUED													
	WEST SOUTH CENTRAL DIVISION	121	52	4.3	39.1	2.3	4.7	16.6	116.2	143.6	256.6	4.7	(NA)	(NA)
	ARKANSAS	6	2	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	LOUISIANA	9	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	OKLAHOMA	15	5	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	TEXAS	89	42	3.6	33.3	1.9	3.6	14.3	102.7	124.2	224.2	3.4	(NA)	(NA)
	WEST REGION	289	123	9.5	93.5	5.1	10.1	43.6	265.2	321.1	581.9	8.2	6.7	175.0
	MOUNTAIN DIVISION	29	12	.7	6.6	.3	.6	2.4	14.5	22.2	36.8	.7	(NA)	(NA)
	COLORADO	12	5	.3	3.1	.1	.3	1.0	7.9	10.3	18.6	.5	(NA)	(NA)
	PACIFIC DIVISION	260	111	8.6	86.9	4.8	9.5	41.4	250.6	298.9	545.1	7.5	(NA)	(NA)
	WASHINGTON	25	11	.6	5.5	.3	.5	2.2	12.2	15.3	28.3	1.0	(NA)	(NA)
	OREGON	16	9	.3	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	CALIFORNIA	218	91	7.8	77.6	4.3	8.6	37.6	230.3	274.1	490.3	6.4	(NA)	(NA)
286	INDUSTRIAL ORGANIC CHEMICALS	827	454	136.6	1 614.3	87.9	177.8	937.6	5 073.1	5 514.5	11 605.4	831.6	(NA)	(NA)
	NORTHEAST REGION	273	156	41.1	469.7	25.4	51.4	266.4	1 090.9	1 341.6	2 440.5	135.3	(NA)	(NA)
	NEW ENGLAND DIVISION	48	22	7.0	72.5	4.0	8.7	42.2	113.4	150.0	274.5	25.5	(NA)	(NA)
	MAINE	1	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	NEW HAMPSHIRE	1	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MASSACHUSETTS	20	6	.6	5.4	.4	.6	3.2	23.1	18.1	42.9	2.6	(NA)	(NA)
	RHODE ISLAND	7	4	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	CONNECTICUT	19	10	4.7	50.8	2.7	6.0	31.0	58.7	97.8	164.0	18.0	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	225	134	34.1	397.3	21.4	42.7	224.2	977.5	1 191.6	2 166.0	109.8	(NA)	(NA)
	NEW YORK	60	28	8.8	94.2	5.8	11.0	53.9	209.2	222.1	425.3	31.2	(NA)	(NA)
	NEW JERSEY	118	81	21.4	264.7	13.3	27.0	149.5	684.3	823.2	1 507.7	63.5	(NA)	(NA)
	PENNSYLVANIA	47	25	3.9	38.4	2.3	4.7	20.6	64.0	146.2	233.0	15.2	(NA)	(NA)
	NORTH CENTRAL REGION	178	83	22.6	263.2	14.2	27.8	146.4	786.8	704.3	1 496.2	84.0	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	120	69	19.6	234.2	12.1	23.7	128.0	626.4	595.8	1 232.0	75.0	(NA)	(NA)
	OHIO	49	30	5.5	59.9	3.3	6.6	31.9	109.6	209.6	377.1	12.7	(NA)	(NA)
	INDIANA	6	6	1.1	12.0	.8	1.6	7.5	41.0	43.2	82.8	1.9	(NA)	(NA)
	ILLINOIS	32	14	4.1	52.1	2.7	5.2	29.7	142.5	160.6	309.8	24.7	(NA)	(NA)
	MICHIGAN	20	12	8.5	107.3	5.1	9.6	57.2	260.9	167.2	436.6	35.2	(NA)	(NA)
	WISCONSIN	11	7	.5	4.0	.2	.5	1.8	12.4	15.2	25.6	.0	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	58	14	2.8	27.0	2.1	4.1	16.4	160.5	108.5	264.2	9.0	(NA)	(NA)
	IOA	3	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MISSOURI	40	6	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	SOUTH REGION	308	187	69.5	843.6	46.3	94.5	505.0	4 039.3	3 327.9	7 373.3	591.3	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	125	71	21.1	226.7	15.1	31.5	152.2	970.6	720.3	1 704.2	124.9	(NA)	(NA)
	DELAWARE	7	5	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MARYLAND	11	4	.8	8.5	.4	.9	4.2	21.0	43.7	65.9	(U)	(NA)	(NA)
	VIRGINIA	9	5	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST VIRGINIA	20	17	11.5	128.7	8.6	18.0	93.3	615.0	339.7	659.3	38.3	(NA)	(NA)
	NORTH CAROLINA	22	11	1.4	13.7	.9	1.7	7.3	74.4	83.2	163.8	(U)	(NA)	(NA)
	SOUTH CAROLINA	18	10	1.2	11.9	.9	1.5	7.2	50.2	55.9	104.0	5.3	(NA)	(NA)
	GEORGIA	19	7	1.4	13.9	1.0	2.0	8.6	50.7	51.2	104.9	2.7	(NA)	(NA)
	FLORIDA	16	12	2.1	19.8	1.4	3.1	12.5	53.9	60.6	114.7	7.5	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	56	34	11.3	122.1	7.7	15.9	75.8	446.7	491.4	935.9	42.7	(NA)	(NA)
	KENTUCKY	9	3	2.7	29.2	2.0	4.1	20.3	101.2	138.7	238.9	7.6	(NA)	(NA)
	TENNESSEE	19	11	5.9	68.2	3.9	7.9	39.2	205.0	217.1	421.8	26.0	(NA)	(NA)
	ALABAMA	16	10	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MISSISSIPPI	12	5	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	127	82	37.2	494.8	23.4	47.1	277.0	2 622.1	2 116.2	4 733.2	423.7	(NA)	(NA)
	LOUISIANA	32	28	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	TEXAS	85	52	26.0	344.9	16.1	31.6	187.8	1 960.6	1 501.3	3 454.3	274.8	(NA)	(NA)
	WEST REGION	68	28	3.3	37.8	2.0	4.0	19.8	155.0	140.7	295.3	21.1	(NA)	(NA)
	MOUNTAIN DIVISION	7	3	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	COLORADO	5	2	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	PACIFIC DIVISION	61	25	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WASHINGTON	6	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	OREGON	5	3	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	CALIFORNIA	46	19	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
287	AGRICULTURAL CHEMICALS	1 233	484	47.9	438.4	30.8	63.7	251.2	1 736.5	2 193.5	3 929.1	155.8	(NA)	(NA)
	NORTHEAST REGION	143	51	3.8	33.9	2.2	4.7	17.0	107.2	130.9	237.1	5.6	(NA)	(NA)
	NEW ENGLAND DIVISION	30	9	.4	3.1	.2	.4	1.4	7.2	16.8	23.9	.4	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	113	42	3.4	30.8	2.0	4.2	13.6	99.9	114.1	213.2	5.1	(NA)	(NA)
	NEW YORK	39	13	.7	5.2	.5	.9	3.2	13.5	31.5	43.7	1.2	(NA)	(NA)
	NEW JERSEY	27	13	1.4	12.8	.9	1.9	7.6	64.2	45.7	111.0	2.7	(NA)	(NA)
	PENNSYLVANIA	47	16	1.4	12.9	.7	1.4	4.9	22.2	36.9	58.4	1.3	(NA)	(NA)
	NORTH CENTRAL REGION	368	120	11.7	114.0	6.9	14.0	56.5	475.2	587.1	1 058.2	34.3	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	221	76	6.5	62.8	3.8	7.7	31.2	286.5	324.4	608.6	16.9	(NA)	(NA)
	OHIO	63	26	2.3	19.4	1.4	2.8	10.5	114.1	111.3	224.8	4.7	(NA)	(NA)
	INDIANA	47	11	1.9	22.3	1.0	2.0	10.5	116.4	82.1	198.2	8.7	(NA)	(NA)
	ILLINOIS	56	23	1.5	14.7	.9	1.6	6.8	41.0	87.9	127.8	2.1	(NA)	(NA)
	MICHIGAN	25	6	.5	3.7	.3	.5	1.8	8.9	26.3	36.9	(U)	(NA)	(NA)
	WISCONSIN	30	8	.3	2.7	.2	.5	1.6	6.1	14.8	20.9	(U)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	147	44	5.2	51.1	3.0	6.3	25.3	188.7	262.7	449.6	17.4	(NA)	(NA)
	MINNESOTA	36	4	.3	2.9	.2	.4	1.3	9.7	19.4	28.9	1.1	(NA)	(NA)
	IOA	28	12	1.3	13.8	.8	1.8	6.9	59.7	95.7	154.6	4.7	(NA)	(NA)
	MISSOURI	45	14	2.1	21.2	1.1	2.3	9.0	59.1	76.7	136.1	7.4	(NA)	(NA)
	NEBRASKA	20	7	.6	5.4	.4	.8	3.5	30.3	34.5	63.4	1.0	(NA)	(NA)
	KANSAS	13	7	.6	7.6	.5	1.0	4.5	29.2	35.4	65.0	(U)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					(million dollars)	(million dollars)
287	AGRICULTURAL CHEMICALS--CONTINUED													
	SOUTH REGION	560	262	27.2	237.2	18.5	7	147.1	937.5	1 235.5	2 183.9	90.6	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	311	149	14.9	120.1	10.3	21.7	74.4	339.7	635.9	977.9	41.3	(NA)	(NA)
	MARYLAND	25	10	.9	6.5	.6	1.3	3.9	16.1	34.6	50.9	1.0	(NA)	(NA)
	VIRGINIA	32	14	1.6	11.0	1.0	2.1	6.6	26.1	57.7	84.6	1.3	(NA)	(NA)
	NORTH CAROLINA	53	28	2.5	20.0	1.8	3.6	13.3	64.7	91.9	155.3	6.7	(NA)	(NA)
	SOUTH CAROLINA	33	12	.7	4.4	.5	.9	2.2	11.6	29.2	40.0	1.5	(NA)	(NA)
	GEORGIA	63	31	2.5	17.9	1.5	3.1	9.2	46.8	92.2	138.8	2.7	(NA)	(NA)
	FLORIDA	95	51	6.6	59.3	4.7	10.6	38.7	170.7	324.0	497.7	27.7	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	109	56	5.6	49.2	3.8	8.1	30.4	207.5	247.1	460.4	17.8	(NA)	(NA)
	KENTUCKY	24	13	.5	3.0	.3	.6	1.5	8.6	19.0	27.0	(D)	(NA)	(NA)
	TENNESSEE	27	17	1.4	11.8	1.0	2.2	7.4	47.1	59.6	105.2	1.9	(NA)	(NA)
	ALABAMA	33	14	2.2	19.7	1.5	2.9	11.6	59.7	88.9	158.5	5.7	(NA)	(NA)
	MISSISSIPPI	25	12	1.5	14.8	1.0	2.4	9.9	42.1	79.6	169.8	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	140	57	6.7	67.9	4.5	8.9	42.4	390.2	352.5	745.6	31.4	(NA)	(NA)
	ARKANSAS	20	6	.9	7.2	.6	1.2	4.6	37.6	34.0	73.1	.3	(NA)	(NA)
	LOUISIANA	29	13	2.5	29.2	1.7	3.5	18.7	225.7	169.6	397.2	20.0	(NA)	(NA)
	OKLAHOMA	10	2	.3	2.4	.2	.4	1.7	9.7	5.0	14.0	.6	(NA)	(NA)
	TEXAS	81	36	3.1	29.1	2.0	3.9	17.4	117.3	144.0	261.3	10.5	(NA)	(NA)
	WEST REGION	162	51	5.3	53.3	3.2	6.3	30.6	216.6	240.1	450.0	25.3	(NA)	(NA)
	MOUNTAIN DIVISION	37	12	1.5	14.1	1.0	2.1	9.4	66.0	74.3	138.1	12.0	(NA)	(NA)
	IDAHO	7	3	.0	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	10	4	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA	6	2	.2	1.4	.1	.3	.9	6.0	9.5	13.2	(D)	(NA)	(NA)
	PACIFIC DIVISION	129	39	3.7	39.1	2.2	4.2	21.2	150.6	165.8	311.9	13.3	(NA)	(NA)
	WASHINGTON	18	4	.3	2.3	.2	.3	1.3	10.5	11.6	21.9	2.3	(NA)	(NA)
	CALIFORNIA	93	30	3.1	31.0	1.7	3.3	16.0	109.8	126.3	232.1	9.7	(NA)	(NA)
289	MISCELLANEOUS CHEMICAL PRODUCTS	2 605	775	83.1	814.3	52.4	104.5	434.3	2 202.6	2 082.3	4 268.4	150.6	(NA)	(NA)
	NORTHEAST REGION	771	239	21.6	209.0	13.3	25.9	104.9	536.1	548.5	1 076.4	35.4	(NA)	(NA)
	NEW ENGLAND DIVISION	171	45	4.9	50.1	2.4	4.8	20.8	117.8	137.0	254.8	9.4	(NA)	(NA)
	MAINE	9	3	.2	1.0	.1	.3	.8	1.5	3.9	5.2	(D)	(NA)	(NA)
	MASSACHUSETTS	100	24	3.0	31.1	1.6	3.2	15.0	70.7	84.1	155.9	6.0	(NA)	(NA)
	CONNECTICUT	40	16	1.7	16.9	.6	1.1	4.5	42.7	45.8	87.6	2.4	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	600	194	16.7	158.9	10.8	21.1	84.1	418.3	411.5	821.6	26.0	(NA)	(NA)
	NEW YORK	223	53	4.3	42.0	2.8	5.6	22.0	109.2	122.8	232.7	7.3	(NA)	(NA)
	NEW JERSEY	211	85	7.4	72.7	4.8	9.2	38.6	198.2	188.8	380.5	11.7	(NA)	(NA)
	PENNSYLVANIA	166	56	5.0	44.2	3.2	6.3	23.5	110.9	100.0	208.4	7.0	(NA)	(NA)
	NORTH CENTRAL REGION	794	279	30.5	313.5	18.5	37.8	160.0	846.0	827.6	1 568.6	66.2	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	631	222	23.8	242.1	14.4	29.3	124.0	632.6	670.6	1 300.3	53.9	(NA)	(NA)
	OHIO	201	71	7.8	78.5	4.6	9.1	38.4	200.8	201.4	402.1	15.3	(NA)	(NA)
	INDIANA	41	13	.7	6.0	.5	.9	3.3	18.6	23.6	44.9	1.0	(NA)	(NA)
	ILLINOIS	224	88	8.0	83.6	4.6	9.5	40.4	227.3	244.3	468.7	29.2	(NA)	(NA)
	MICHIGAN	105	33	3.9	41.6	2.3	4.9	20.4	124.3	159.2	280.1	6.7	(NA)	(NA)
	WISCONSIN	60	17	3.4	32.5	2.4	4.9	21.5	61.5	42.2	104.5	1.7	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	163	57	6.7	71.4	4.1	8.4	36.0	213.4	157.0	368.5	12.4	(NA)	(NA)
	MINNESOTA	38	12	2.0	25.6	1.2	2.4	11.6	69.9	63.5	152.8	4.7	(NA)	(NA)
	IOWA	17	2	.2	1.8	.2	.3	1.3	5.1	5.9	10.9	.8	(NA)	(NA)
	MISSOURI	76	33	3.2	31.9	1.9	3.8	15.6	87.6	69.2	156.0	3.0	(NA)	(NA)
	KANSAS	20	10	1.2	11.8	.9	1.9	7.2	29.0	16.5	45.2	(D)	(NA)	(NA)
	SOUTH REGION	606	150	22.0	209.0	15.1	29.6	124.6	558.7	444.2	1 000.3	29.0	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	251	58	9.7	89.5	6.3	12.9	48.0	214.2	168.2	382.4	9.8	(NA)	(NA)
	MARYLAND	35	11	1.1	10.1	.7	1.3	4.9	20.9	22.1	43.2	1.5	(NA)	(NA)
	DISTRICT OF COLUMBIA	2	1	.0	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	22	4	.0	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA	7	3	.6	7.0	.4	.9	4.6	20.1	18.7	38.4	(D)	(NA)	(NA)
	NORTH CAROLINA	45	11	.0	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	63	19	1.4	14.1	.8	1.7	5.6	49.2	65.4	116.2	2.7	(NA)	(NA)
	FLORIDA	65	7	.7	6.0	.4	.8	2.9	14.8	12.5	26.7	1.1	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	82	22	4.9	49.3	3.7	7.2	34.1	114.9	82.9	198.0	2.3	(NA)	(NA)
	KENTUCKY	20	4	.0	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	40	12	4.1	41.1	3.0	5.9	29.2	71.1	58.5	129.9	1.6	(NA)	(NA)
	ALABAMA	16	6	.4	4.4	.3	.7	3.0	14.5	13.0	27.6	.5	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	273	70	7.3	70.2	5.1	9.8	42.5	229.7	193.1	419.9	16.9	(NA)	(NA)
	ARKANSAS	10	2	.5	2.9	.4	.7	1.8	7.9	4.8	11.9	1.4	(NA)	(NA)
	LOUISIANA	44	14	1.6	16.2	1.3	3.0	12.6	57.5	50.7	108.2	5.4	(NA)	(NA)
	OKLAHOMA	30	2	.2	2.0	.1	.2	1.1	11.2	7.7	18.4	.5	(NA)	(NA)
	TEXAS	189	52	5.0	49.0	3.3	5.8	27.0	153.0	129.9	281.5	9.6	(NA)	(NA)
	WEST REGION	434	107	9.0	82.8	5.6	11.0	44.8	261.9	262.1	522.9	20.1	(NA)	(NA)
	MOUNTAIN DIVISION	68	15	1.2	9.8	.8	1.7	5.7	26.4	27.9	53.8	1.8	(NA)	(NA)
	COLORADO	21	4	.3	2.6	.2	.3	1.0	7.5	6.0	13.4	.3	(NA)	(NA)
	ARIZONA	16	3	.4	3.3	.3	.6	2.1	7.4	13.2	20.3	.5	(NA)	(NA)
	UTAH	13	6	.3	2.7	.3	.5	1.9	6.2	3.5	9.6	.4	(NA)	(NA)
	PACIFIC DIVISION	366	92	7.8	73.0	4.8	9.3	39.1	235.4	234.1	469.1	18.3	(NA)	(NA)
	WASHINGTON	30	8	.7	7.2	.5	.9	4.5	16.0	29.7	43.5	1.0	(NA)	(NA)
	OREGON	31	10	.6	6.0	.3	.7	3.2	26.8	45.0	71.7	1.8	(NA)	(NA)
	CALIFORNIA	302	74	6.6	59.8	4.0	7.7	31.3	192.4	159.2	353.6	15.5	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (2) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Chemicals and allied products (SIC 28)	Industrial inorganic chemicals (SIC 281)	Plastics materials and synthetics (SIC 282)	Drugs (SIC 283)	Soaps, cleaners, and toilet goods (SIC 284)	Paints and allied products (SIC 285)	Industrial organic chemicals (SIC 286)	Agricultural chemicals (SIC 287)	Miscellaneous chemical products (SIC 289)
ESTABLISHMENTS, TOTALNUMBER .	11 425	1 049	461	1 078	2 573	1 599	827	1 233	2 605
WITH 1 TO 19 EMPLOYEESDO .	6 994	539	97	653	1 841	912	373	749	1 830
WITH 20 TO 99 EMPLOYEESDO .	3 003	329	171	241	510	544	221	381	606
WITH 100 EMPLOYEES OR MOREDO .	1 428	181	193	184	222	143	233	103	169
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	836.5	99.5	161.9	129.9	111.6	65.9	136.6	47.9	83.1
PAYROLL FOR YEAR, ALL EMPLOYEESMILLION DOLLARS .	6 730.5	1 078.5	1 666.3	1 413.3	1 058.2	647.2	1 614.3	438.4	614.3
PRODUCTION WORKERS:									
AVERAGE FOR YEAR1,000 .	525.0	63.9	116.0	67.0	70.7	36.2	87.9	30.8	52.4
MARCHDO .	518.7	62.5	115.0	66.7	67.2	35.2	87.6	32.5	51.8
MAYDO .	524.4	63.1	115.5	66.6	69.3	36.4	88.4	32.9	52.2
AUGUSTDO .	527.6	64.6	116.6	67.0	72.4	37.4	88.2	28.4	53.0
NOVEMBERDO .	529.4	65.3	117.0	67.7	73.9	35.9	87.6	29.4	52.7
HOURSMILLIONS .	1 053.7	127.8	236.2	132.3	138.2	73.2	177.8	63.7	104.5
JANUARY-MARCHDO .	261.5	31.7	58.3	33.7	33.1	17.4	44.9	16.5	25.8
APRIL-JUNEDO .	265.8	31.9	59.0	33.5	34.5	18.6	45.0	17.4	26.0
JULY-SEPTEMBERDO .	258.9	31.6	58.3	31.6	35.0	19.0	42.6	14.5	26.2
OCTOBER-DECEMBERDO .	267.5	32.5	60.7	33.6	35.6	18.2	45.3	15.2	26.4
RATESMILLION DOLLARS .	4 753.9	631.1	1 063.2	563.1	558.3	295.1	937.6	251.2	434.3
COST OF MATERIALS, ETC., TOTAL ¹DO .	25 085.5	2 779.4	4 854.9	1 972.2	3 630.4	2 056.4	5 514.5	2 193.5	2 082.3
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMEDDO .	21 052.2	1 937.4	4 376.7	1 703.0	3 172.6	1 652.8	4 555.0	1 653.3	1 801.4
COST OF REALESDO .	1 761.6	134.8	134.8	132.8	323.0	176.3	337.6	344.3	177.7
FUELS CONSUMEDDO .	989.5	201.9	178.5	30.3	36.1	11.0	371.7	108.6	57.4
PURCHASED ELECTRIC ENERGYDO .	962.6	480.9	130.6	37.1	28.1	15.6	171.0	67.0	32.3
CONTRACT WORKDO .	319.7	24.4	34.2	69.0	76.7	2.7	78.9	20.2	13.5
VALUE OF SHIPMENTS, INCLUDING REALES ¹DO .	57 349.6	6 132.7	9 796.0	8 018.5	9 777.6	3 621.8	11 605.4	3 929.1	4 266.4
VALUE OF REALESDO .	2 356.3	185.0	143.8	222.5	553.3	245.8	375.7	395.3	235.0
VALUE ADDED BY MANUFACTUREDO .	32 413.9	3 343.1	4 935.4	6 130.9	6 200.6	1 791.7	6 073.1	1 736.5	2 202.6
MANUFACTURERS' INVENTORIES:									
BEGINNING OF YEAR, TOTALDO .	6 926.1	623.9	1 126.5	1 094.8	994.4	501.0	1 512.8	599.9	473.0
FINISHED PRODUCTSDO .	3 478.4	259.5	656.8	415.7	500.3	283.0	782.9	348.7	231.5
WORK IN PROCESSDO .	1 032.8	90.9	141.8	288.7	83.4	34.4	285.0	61.3	47.1
MATERIALS, SUPPLIES, FUEL, ETC.DO .	2 414.9	273.4	328.0	390.4	410.7	183.5	445.0	189.7	194.4
END OF YEAR, TOTALDO .	7 107.1	614.7	1 125.4	1 191.8	1 064.1	542.8	1 486.3	601.2	480.8
FINISHED PRODUCTSDO .	3 529.3	236.2	645.7	466.5	534.8	306.1	754.4	347.7	237.9
WORK IN PROCESSDO .	1 057.0	103.2	140.4	316.7	84.3	35.5	250.8	52.3	43.7
MATERIALS, SUPPLIES, FUEL, ETC.DO .	2 520.9	275.3	339.3	408.6	445.0	201.2	451.1	201.2	194.1
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO .	2 797.0	338.9	707.5	256.9	248.6	84.2	836.6	169.7	154.6
NEW PLANT AND EQUIPMENT, TOTALDO .	2 728.4	333.4	693.9	245.3	236.1	81.5	831.6	155.8	150.6
NEW STRUCTURES AND ADDITIONS TO PLANTDO .	498.3	34.8	94.3	85.1	57.5	26.5	127.3	32.0	40.8
NEW MACHINERY AND EQUIPMENTDO .	2 230.2	298.7	599.7	160.3	178.6	55.0	704.3	123.7	110.0
USED PLANT AND EQUIPMENTDO .	68.6	5.4	13.6	11.5	12.6	2.7	5.0	13.9	3.9

¹The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Industrial Inorganic Chemicals

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EXPLANATORY TEXT

INDUSTRIAL INORGANIC CHEMICALS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2812—Alkalies and Chlorine

2813—Industrial Gases

2816—Inorganic Pigments

2819—Industrial Inorganic Chemicals, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2812.—ALKALIES AND CHLORINE

This industry comprises establishments primarily engaged in manufacturing alkalies and chlorine. For a detailed list of products of industry 2812, refer to table 6A, product codes 28121 11 to 28124 90.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Alkalies and Chlorine Industry in 1972 totaled \$823.2 million. This included shipments of alkalies and chlorine (primary products) valued at \$525.7 million, shipments of other products (secondary products) valued at \$280.9 million, and miscellaneous receipts (mainly resales) of \$16.6 million.

Shipments of alkalies and chlorine (primary products) in 1972 represented 65 percent (specialization ratio) of the

industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 67 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c., (\$91 million) and industrial inorganic chemicals, n.e.c., (\$62.6 million).

Shipments of alkalies and chlorine (primary products) from establishments classified in industry 2812 in 1972 represented 65 percent (coverage ratio) of these products valued at \$805.7 million shipped by all industries. In 1967, the coverage ratio was 75 percent. Other industries shipping alkalies and chlorine consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$225.2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2812, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2813.—INDUSTRIAL GASES

This industry comprises establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and solid forms. Establishments primarily engaged in manufacturing fluorine and sulfur dioxide are classified in industry 2819, household ammonia in industry 2842, other ammonia in industry 2873, and chlorine in industry 2812. Distributors of industrial gases and establishments primarily engaged in shipping liquid oxygen are classified in trade industries. For a detailed list of products of industry 2813, refer to table 6A, product codes 28132 00 to 28134 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Industrial Gases Industry in 1972 totaled \$679.3 million. This included shipments of industrial gases (primary products) valued at \$605.2 million, shipments of other products (secondary products) valued at \$27.8 million, and miscellaneous receipts (mainly resales) of \$46.3 million.

Shipments of industrial gases (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 96 percent. Secondary

products shipped by this industry in 1972 consisted mainly of natural gas liquids (\$10 to \$20 million) and nitrogenous fertilizers (\$5 to \$10 million).

Shipments of industrial gases (primary products) from establishments classified in industry 2813 in 1972 represented 92 percent (coverage ratio) of these products valued at \$659.1 million shipped by all industries. In 1967, the coverage ratio was 89 percent. Other industries shipping industrial gases consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$32.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2813, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2816.—INORGANIC PIGMENTS

This industry comprises establishments primarily engaged in manufacturing inorganic pigments. Important products of this industry include black pigments (except carbon black, industry 2895), white pigments, and color pigments. Organic color pigments, except animal black and bone black, are classified in industry 2865, Cyclic Crudes and Intermediates. For a detailed list of products of industry 2816, refer to table 6A, product codes 28161 11 to 28163 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Inorganic Pigments Industry in 1972 totaled \$796.9 million. This included shipments of inorganic pigments (primary products) valued at \$651.9 million, shipments of other products (secondary products) valued at \$109.0 million, and miscellaneous receipts (mainly resales) of \$36.0 million.

Shipments of inorganic pigments (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial inorganic chemicals, n.e.c., (\$50 to \$100 million) and cyclic crudes and intermediates (\$10 to \$20 million).

Shipments of inorganic pigments (primary products) from establishments classified in industry 2816 in 1972 represented

86 percent (coverage ratio) of these products valued at \$756.2 million shipped by all industries. In 1967, the coverage ratio was 84 percent. Other industries shipping inorganic pigments consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$20 to \$50 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2816, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 2819.—INDUSTRIAL INORGANIC CHEMICALS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing industrial inorganic chemicals, not elsewhere classified. Important products of this industry include inorganic salts of sodium (excluding refined sodium chloride), potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, tin; inorganic compounds such as alums, calcium carbide, hydrogen peroxide, sodium silicate, ammonia compounds (except fertilizers), rare earth metal salts and elemental bromine, fluorine, iodine, phosphorus, and alkali metals (sodium, potassium, lithium, etc.).

Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt) are classified in industry 1474, Potash, Soda, and Borate Minerals. Establishments primarily engaged in manufacturing household bleaches are classified in industry 2842, Polishes and Sanitation Goods; phosphoric acid in industry 2874, Phosphatic Fertilizers; and nitric acid, anhydrous ammonia, and other nitrogenous fertilizer materials in industry 2873, Nitrogenous Fertilizers.

Beginning with 1954, statistics include information for government-owned plants operated by private firms for the account of the Federal Government but exclude the activities of government-owned and/or operated plants. General statistics are shown first for all plants (private and government) and second for private plants only in table 1A. Capital expenditures made by government-owned privately operated plants are not included because they are paid for by current billings to the United States. For a detailed list of products of industry 2819, refer to table 6A, product codes 28193 11 to 28199 98.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. However, the SIC number and title are unchanged. The 1972 revisions transferred the

manufacture of household bleaches to industry 2842; the manufacture of synthetic ammonia, nitric acid, and ammonium compounds to industry 2873; and the manufacture of phosphoric acid to industry 2874. In addition, calcium hypochlorite (high test) and other industrial bleaches were transferred from product class 28192, inorganic industrial and household bleaching compounds, to product class 28199, other inorganic chemicals, n.e.c.

The effect of the revisions on the data is summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 782 establishments with 76.7 thousand total employment and \$2,608.3 million value added would have been classified in industry 2819 under the old SIC. As a result of the revisions, 329 establishments with 3.9 thousand total employment and \$181.1 million value added shifted to industry 2842; 60 establishments with 8.1 thousand total employment and \$363.2 million value added shifted to industry 2873; and 10 establishments with 1.0 thousand total employment and \$25.4 million value added shifted to industry 2874.

Value of shipments and other receipts of the Industrial Inorganic Chemicals, N.E.C., Industry in 1972 totaled \$3,827.4 million. This included shipments of industrial inorganic chemicals, n.e.c., (primary products) valued at

\$2,382.9 million, shipments of other products (secondary products) valued at \$291.0 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$1,153.5 million.

Shipments of industrial inorganic chemicals, n.e.c., (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c., (\$82.2 million) and phosphatic fertilizers (\$36.5 million).

Shipments of industrial inorganic chemicals, n.e.c., (primary products) from establishments classified in industry 2819 in 1972 represented 79 percent (coverage ratio) of these products valued at \$3,002.9 million shipped by all industries. Other industries shipping industrial inorganic chemicals, n.e.c., consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$213.4 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2819, these establishments accounted for less than 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2812.--ALKALIES AND CHLORINE															
1972 Census.....	48	39	13.3	152.0	9.6	18.9	102.6	455.6	365.5	823.2	61.5	(NA)	60.4	65	65
1971 ASM.....	(NA)	(NA)	13.7	142.4	9.9	19.6	96.1	360.3	313.7	675.9	45.2	1,165.4	67.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	14.7	141.3	10.5	21.4	93.5	362.0	299.6	660.3	51.0	1,158.9	67.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	15.9	143.0	11.2	23.0	92.6	377.9	310.2	687.9	121.6	1,233.1	64.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	16.9	140.7	11.8	23.8	90.1	372.4	286.2	664.9	90.2	1,193.8	61.9	(NA)	(NA)
1967 Census.....	44	40	19.2	155.7	12.8	25.5	94.4	419.2	302.0	719.8	98.0	1,185.6	71.4	67	75
1966 ASM.....	(NA)	(NA)	19.9	154.0	13.4	27.5	97.8	467.0	319.6	782.7	81.2	(NA)	69.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	20.0	148.2	13.5	26.8	92.1	442.8	291.4	735.4	57.7	(NA)	65.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	19.9	145.3	13.8	28.1	92.3	436.0	276.2	711.6	49.4	1,083.8	66.0	(NA)	(NA)
1963 Census.....	38	37	19.7	138.2	13.5	27.6	88.1	389.2	263.6	652.1	57.5	1,046.7	64.3	66	79
1962 ASM.....	(NA)	(NA)	19.7	132.3	13.5	27.1	84.5	392.3	237.9	628.1	69.0	1,002.9	63.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	19.9	128.0	13.6	27.0	81.0	363.4	222.1	589.0	42.2	(NA)	63.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	20.5	126.5	14.2	28.6	83.5	360.1	219.6	576.7	32.4	(NA)	67.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	20.1	120.2	14.0	28.4	79.3	347.9	220.1	565.3	43.4	(NA)	64.9	(NA)	(NA)
1958 Census.....	34	32	20.5	115.0	13.9	28.4	75.1	306.2	198.3	504.3	27.9	(NA)	60.8	73	84
INDUSTRY 2813.--INDUSTRIAL GASES															
1972 Census.....	503	138	9.6	87.2	5.4	10.6	48.3	466.7	214.9	679.3	84.1	(NA)	32.7	96	92
1971 ASM.....	(NA)	(NA)	9.1	80.3	4.9	10.0	42.3	478.5	186.7	665.3	57.6	1,004.2	27.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.6	83.5	5.1	10.6	42.8	516.8	198.9	716.1	60.8	999.7	27.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	9.5	80.2	5.0	10.5	37.5	500.1	196.7	696.8	57.1	944.9	26.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	9.9	82.9	5.0	10.6	38.5	498.2	192.2	668.3	72.2	967.8	25.2	(NA)	(NA)
1967 Census.....	507	156	10.3	78.5	5.3	11.1	36.6	400.9	188.8	588.7	123.7	932.0	21.2	96	89
1966 ASM.....	(NA)	(NA)	9.9	74.6	4.9	10.5	34.5	363.1	190.4	549.7	97.0	(NA)	18.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.1	72.2	5.3	11.2	35.2	346.7	194.2	540.0	63.8	(NA)	16.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	10.2	72.7	5.6	11.7	37.2	309.0	199.5	507.3	73.4	693.6	16.3	(NA)	(NA)
1963 Census.....	456	146	9.8	66.6	5.2	11.1	33.5	260.2	164.4	425.4	93.5	618.1	15.3	98	87
1962 ASM.....	(NA)	(NA)	9.9	63.3	5.6	11.7	32.9	225.8	156.4	382.3	94.0	538.9	13.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	10.3	59.5	5.8	11.5	32.0	221.8	140.0	362.2	94.0	(NA)	13.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	10.5	61.0	5.9	12.4	32.4	212.4	131.6	344.1	42.6	(NA)	14.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	10.2	56.4	5.7	11.9	30.2	196.7	118.7	315.1	39.5	(NA)	13.9	(NA)	(NA)
1958 Census.....	491	177	10.6	56.7	5.8	12.7	30.6	174.2	103.5	277.4	48.6	(NA)	13.5	99	85
INDUSTRY 2816.--INORGANIC PIGMENTS															
1972 Census.....	114	69	12.8	134.6	9.0	18.3	87.8	382.6	394.9	796.9	38.9	(NA)	137.4	86	86
1971 ASM.....	(NA)	(NA)	13.1	131.4	9.1	18.9	85.0	332.3	333.8	666.0	38.8	641.4	156.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	13.7	126.0	9.6	19.6	82.7	337.0	318.9	646.3	49.1	610.3	145.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	13.4	116.8	9.6	19.4	77.6	367.4	299.5	657.7	49.8	589.9	129.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	13.0	105.0	9.3	18.5	69.3	356.1	270.9	624.0	15.9	546.8	116.7	(NA)	(NA)
1967 Census.....	98	60	12.6	97.2	8.9	17.7	63.2	316.3	235.0	549.3	20.8	504.1	108.6	90	84
1966 ASM.....	(NA)	(NA)	12.7	96.2	9.0	18.2	63.5	339.9	247.6	581.8	17.2	(NA)	112.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.4	88.5	8.8	17.4	57.5	331.3	226.5	553.6	48.5	(NA)	103.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	12.3	88.4	8.7	17.7	58.7	334.9	216.2	548.1	43.4	402.7	93.6	(NA)	(NA)
1963 Census.....	96	49	11.5	76.4	8.1	16.2	49.9	286.4	194.2	484.8	17.4	376.7	86.6	91	87
1962 ASM.....	(NA)	(NA)	12.4	83.5	8.7	18.2	53.4	302.4	192.3	489.9	*20.8	365.9	105.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	12.0	79.1	8.2	17.4	49.0	296.5	192.7	482.7	15.9	(NA)	96.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	12.6	78.9	8.6	18.5	49.6	285.0	197.7	486.7	*24.7	(NA)	94.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	12.3	73.9	8.7	18.1	47.9	292.7	210.7	492.3	20.6	(NA)	91.3	(NA)	(NA)
1958 Census.....	99	57	11.4	61.9	8.0	16.0	40.9	235.7	172.2	417.7	42.9	(NA)	82.1	92	89
INDUSTRY 2819.--INDUSTRIAL INORGANIC CHEMICALS, N.E.C. ²															
1972 Census.....	383	264	63.7	704.6	39.9	79.9	392.3	³ 2,037.3	⁴ 1,799.1	⁵ 3,827.4	⁶ 148.9	(NA)	383.7	⁷ 89	⁷ 79
Privately Owned and Operated Establishments (Industry 2819)															
1972 Census.....	371	252	39.7	426.5	27.0	54.6	262.2	1,260.3	1,549.4	2,800.7	148.9	(NA)	383.7	89	79

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2812	Industry 2813	Industry 2816	Industry 2819
1972.....	28	106	77	166
1967.....	19	113	65	(NA)
1963.....	19	104	69	(NA)

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

Footnotes continued on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

Footnotes for table 1A--Continued

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²Industrial Inorganic Chemicals, N.E.C., total includes, in addition to privately owned establishments, government-owned, contractor-operated plants. See privately owned plants, below.

³Data include value added for government-owned, contractor-operated plants which was estimated based upon averages reported for commercial establishments in prior years.

⁴Data exclude government-owned materials furnished to government-owned, contractor-operated plants and includes fuel and electricity purchased by or for these establishments.

⁵Data include a calculated value of shipments for government-owned, contractor-operated plants comprised of adjusted value added (estimated as described in footnote 3) plus the cost of fuels and electricity energy.

⁶Includes expenditures for plants under construction but not in operation. Capital expenditures of government-owned, contractor-operated plants are excluded from the totals for the industry.

⁷Government-owned, privately operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all dollar receipts for these establishments were included in "miscellaneous receipts."

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2812.--ALKALIES AND CHLORINE											
1972 Census.....	11,387	(NA)	72	1,980	5.42	.45	.64	(NA)	34,255	33	24.10
1971 ASM.....	10,394	85,060	72	1,980	4.90	.46	.67	1.72	26,299	40	18.38
1970 ASM.....	9,612	78,830	71	2,038	4.37	.45	.67	1.75	24,626	39	16.92
1969 ASM.....	8,994	77,550	70	2,054	4.03	.45	.66	1.79	23,767	38	16.43
1968 ASM.....	8,325	70,640	70	2,017	3.79	.43	.64	1.80	22,036	38	15.65
1967 Census.....	8,129	61,750	67	1,994	3.70	.42	.64	1.65	21,881	37	16.41
1966 ASM.....	7,728	(NA)	67	2,060	3.55	.41	.61	(NA)	23,431	33	16.96
1965 ASM.....	7,406	(NA)	67	1,993	3.43	.40	.60	(NA)	22,126	33	16.51
1964 ASM.....	7,290	54,460	69	2,041	3.28	.39	.59	1.52	21,881	33	15.50
1963 Census.....	7,030	53,130	69	2,046	3.19	.40	.62	1.61	19,807	35	14.11
1962 ASM.....	6,711	50,910	68	2,012	3.11	.38	.59	1.60	19,899	34	14.46
1961 ASM.....	6,435	(NA)	68	1,990	3.00	.38	.59	(NA)	18,267	35	13.45
1960 ASM.....	6,180	(NA)	70	2,010	2.92	.38	.60	(NA)	17,589	35	12.59
1959 ASM.....	5,967	(NA)	70	2,020	2.79	.39	.60	(NA)	17,272	35	12.26
1958 Census.....	5,618	(NA)	68	2,045	2.64	.39	.62	(NA)	14,953	38	10.77
INDUSTRY 2813.--INDUSTRIAL GASES											
1972 Census.....	9,083	(NA)	57	1,963	4.56	.32	.44	(NA)	48,615	19	44.02
1971 ASM.....	8,824	110,350	54	2,041	4.23	.28	.40	1.51	52,582	17	47.85
1970 ASM.....	8,698	104,130	53	2,078	4.04	.28	.39	1.40	53,833	16	48.76
1969 ASM.....	8,442	99,460	53	2,100	3.57	.28	.40	1.36	52,642	16	47.63
1968 ASM.....	8,374	97,760	51	2,120	3.63	.29	.41	1.45	50,323	17	47.00
1967 Census.....	7,657	90,490	52	2,079	3.31	.32	.45	1.58	39,096	20	36.26
1966 ASM.....	7,540	(NA)	50	2,128	3.30	.35	.48	(NA)	36,680	21	34.71
1965 ASM.....	7,137	(NA)	53	2,095	3.15	.36	.49	(NA)	34,295	21	31.02
1964 ASM.....	7,125	68,000	55	2,098	3.18	.39	.54	1.37	30,297	24	26.41
1963 Census.....	6,785	63,070	54	2,108	3.02	.39	.54	1.45	26,525	26	23.51
1962 ASM.....	6,399	54,430	57	2,093	2.81	.41	.57	1.41	22,824	28	19.25
1961 ASM.....	5,798	(NA)	56	1,983	2.78	.39	.55	(NA)	21,612	27	19.32
1960 ASM.....	5,789	(NA)	56	2,079	2.62	.38	.56	(NA)	20,155	29	17.18
1959 ASM.....	5,523	(NA)	56	2,076	2.53	.38	.56	(NA)	19,262	29	16.50
1958 Census.....	5,324	(NA)	55	2,179	2.41	.37	.58	(NA)	16,374	33	13.76
INDUSTRY 2816.--INORGANIC PIGMENTS											
1972 Census.....	10,509	(NA)	70	2,043	4.79	.50	.66	(NA)	29,874	35	20.91
1971 ASM.....	10,031	48,960	70	2,077	4.50	.50	.70	.96	25,366	40	17.58
1970 ASM.....	9,197	44,550	70	2,042	4.22	.49	.69	.94	24,599	37	17.19
1969 ASM.....	8,716	44,020	72	2,021	4.00	.46	.63	.90	27,418	32	18.94
1968 ASM.....	8,077	42,060	72	1,989	3.75	.43	.60	.88	27,392	30	19.25
1967 Census.....	7,736	40,000	71	1,994	3.58	.43	.60	.92	25,178	31	17.90
1966 ASM.....	7,556	(NA)	71	2,022	3.48	.43	.59	(NA)	26,695	28	18.64
1965 ASM.....	7,139	(NA)	71	1,976	3.31	.41	.57	(NA)	26,740	27	19.09
1964 ASM.....	7,174	32,740	71	2,030	3.31	.39	.56	.73	27,165	26	18.89
1963 Census.....	6,616	32,760	70	1,987	3.09	.40	.56	.78	24,810	27	17.72
1962 ASM.....	6,722	29,510	70	2,086	2.94	.39	.56	.75	24,331	28	16.62
1961 ASM.....	6,559	(NA)	69	2,111	2.82	.40	.56	(NA)	24,737	27	17.04
1960 ASM.....	6,252	(NA)	68	2,143	2.68	.41	.57	(NA)	22,596	28	15.41
1959 ASM.....	5,984	(NA)	70	2,091	2.64	.43	.58	(NA)	23,710	25	16.16
1958 Census.....	5,442	(NA)	70	2,008	2.56	.41	.56	(NA)	20,730	26	14.75
INDUSTRY 2819.--INDUSTRIAL INORGANIC CHEMICALS, N.E.C.											
1972 Census.....	11,061	(NA)	63	2,002	4.91	.47	.65	(NA)	31,983	35	25.50

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 2819.--Industrial Inorganic Chemicals, N.E.C..	383	264	63.7	2,037.3	3,827.4	(X)	(X)	(X)	(X)	(X)
Old industry 2819.--Industrial Inorganic Chemicals, N.E.C..	383	264	63.7	2,037.3	3,827.4	782	379	76.7	2,608.3	4,951.4

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2812-- ALKALIES AND CHLORINE													
UNITED STATES.	48	39	13.3	152.0	9.6	18.9	102.6	455.6	365.5	823.2	61.5	19.2	419.2
NORTHEAST REGION.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION.	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION.	9	9	4.8	54.9	3.4	6.5	36.6	122.5	105.8	229.8	10.0	7.4	109.7
EAST NORTH CENTRAL DIVISION.	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO.	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MICHIGAN.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NORTH CENTRAL DIVISION.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KANSAS.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION.	23	18	5.7	67.3	4.0	8.1	44.2	250.7	194.1	446.1	33.2	7.5	200.9
SOUTH ATLANTIC DIVISION.	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
DELAWARE.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST VIRGINIA.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	58.5
GEORGIA.	3	3	.3	3.0	.2	.4	2.0	12.4	13.8	26.2	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION.	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ALABAMA.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION.	9	7	3.3	41.2	2.3	4.7	27.3	159.7	108.6	267.9	18.0	2.6	77.4
LOUISIANA.	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS.	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MOUNTAIN DIVISION.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEVADA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION.	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	48.0
WASHINGTON.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	19.2
OREGON.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2813-- INDUSTRIAL GASES													
UNITED STATES.	503	138	9.6	87.2	5.4	10.6	48.3	466.7	214.9	679.3	84.1	10.3	400.9
NORTHEAST REGION.	92	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW ENGLAND DIVISION.	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS.	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION.	77	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK.	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NEW JERSEY.	24	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	21.4
PENNSYLVANIA.	37	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	34.9
NORTH CENTRAL REGION.	136	41	2.6	23.4	1.5	2.9	13.3	150.2	65.9	214.4	20.2	2.8	145.1
EAST NORTH CENTRAL DIVISION.	97	25	1.7	15.3	1.0	2.0	8.8	102.6	40.6	143.8	14.0	2.1	103.0
OHIO.	51	10	.6	5.8	.3	.7	3.3	40.9	15.9	56.7	6.6	.9	37.4
INDIANA.	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	20.0
ILLINOIS.	20	6	.4	3.7	.2	.4	1.9	20.0	8.3	28.5	(D)	.5	35.0
MICHIGAN.	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	9.8
WEST NORTH CENTRAL DIVISION.	39	16	.9	8.1	.5	1.0	4.4	47.6	25.3	70.6	6.2	.7	42.1
KANSAS.	14	9	.5	5.1	.3	.6	3.1	38.5	20.2	56.2	(D)	.3	33.3
SOUTH REGION.	176	41	3.1	27.2	1.9	3.6	15.8	158.2	83.1	241.4	52.7	3.1	108.4
SOUTH ATLANTIC DIVISION.	72	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	38.7
MARYLAND.	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST VIRGINIA. E1	14	5	.2	2.4	.1	.2	1.1	20.8	8.2	29.0	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	36	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	32.7
KENTUCKY.	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE.	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ALABAMA. E1	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.8
WEST SOUTH CENTRAL DIVISION.	68	16	1.1	9.5	.6	1.2	5.0	62.7	30.4	93.2	39.2	1.0	36.9
LOUISIANA. E1	16	4	.3	2.8	.1	.3	1.4	20.0	6.8	27.4	10.4	.2	5.4
TEXAS.	43	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION.	99	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MOUNTAIN DIVISION.	34	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	12.1
PACIFIC DIVISION.	65	22	1.3	12.5	.7	1.4	6.4	49.6	21.9	71.8	1.6	1.7	59.8
CALIFORNIA.	44	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	47.3
2816-- INORGANIC PIGMENTS													
UNITED STATES.	114	69	12.8	134.6	9.0	18.3	87.8	382.6	394.9	796.9	38.9	12.6	316.3
NORTHEAST REGION.	45	27	5.0	53.3	3.7	7.5	37.4	149.1	137.3	296.2	(D)	5.3	122.3
NEW ENGLAND DIVISION. E2	11	4	.2	1.7	.1	.3	1.1	6.1	3.7	10.2	(D)	.2	2.6
MIDDLE ATLANTIC DIVISION.	34	23	4.8	51.6	3.5	7.2	36.2	143.0	133.6	286.0	8.4	5.1	119.7
NEW YORK.	6	4	1.3	13.6	.9	1.9	9.5	31.3	40.3	72.5	(D)	1.6	31.8
NEW JERSEY.	17	11	2.1	24.5	1.6	3.2	18.1	64.2	37.6	108.9	3.2	2.3	65.9
PENNSYLVANIA.	11	8	1.5	13.5	1.0	2.1	8.6	47.4	55.6	104.7	(D)	1.2	22.0
NORTH CENTRAL REGION.	34	21	3.5	35.4	2.3	4.5	22.4	75.1	102.4	185.4	6.4	3.3	85.3
EAST NORTH CENTRAL DIVISION.	26	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO.	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
INDIANA. E2	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS.	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION.	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI.	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KANSAS.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION.	21	14	3.8	40.7	2.6	5.5	25.2	137.4	138.7	278.2	19.8	3.6	100.7
SOUTH ATLANTIC DIVISION.	13	9	2.5	26.9	1.7	3.7	16.7	78.6	86.2	166.8	8.1	FF	(D)
DELAWARE.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MARYLAND.	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	19.7
GEORGIA.	6	2	.7	6.8	.5	1.2	4.6	28.1	29.9	59.2	1.9	CC	(D)
EAST SOUTH CENTRAL DIVISION.	4	3	1.2	12.9	.8	1.6	7.8	56.1	46.4	102.5	11.4	CC	(D)
KENTUCKY.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSISSIPPI.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	14	7	.6	5.2	.4	.8	2.8	20.9	16.6	37.0	(D)	.3	8.0
PACIFIC DIVISION.	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA.	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2819-- INDUSTRIAL INORGANIC CHEM., NEC													
UNITED STATES.	383	264	63.7	704.6	39.9	79.9	392.3	2 037.3	1 799.1	3 827.4	148.9	(NA)	(NA)
NORTHEAST REGION.	89	68	10.0	106.6	6.3	13.1	59.6	325.9	359.0	677.0	28.0	(NA)	(NA)
NEW ENGLAND DIVISION.	14	11	1.3	14.4	.7	1.6	7.5	42.1	22.6	65.9	2.7	(NA)	(NA)
MASSACHUSETTS.	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	75	57	8.7	92.2	5.5	11.5	52.1	283.8	336.4	611.1	25.3	(NA)	(NA)
NEW YORK.	14	8	1.7	19.6	1.2	2.3	11.1	58.7	42.7	100.4	6.0	(NA)	(NA)
NEW JERSEY.	33	28	3.5	38.3	2.2	4.6	21.0	111.4	168.0	272.5	10.5	(NA)	(NA)
PENNSYLVANIA.	28	21	3.4	34.3	2.1	4.6	19.9	113.8	125.8	238.3	8.8	(NA)	(NA)
NORTH CENTRAL REGION.	84	62	10.4	113.0	6.8	14.1	68.6	310.4	367.2	677.6	31.9	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	69	51	8.6	94.5	5.5	11.4	55.7	261.7	291.1	553.6	28.4	(NA)	(NA)
OHIO.	25	21	4.4	48.4	2.6	5.2	25.7	124.4	120.2	241.9	9.6	(NA)	(NA)
INDIANA.	9	4	.4	4.2	.3	.6	3.0	16.6	25.4	42.6	1.5	(NA)	(NA)
ILLINOIS.	22	18	2.5	27.2	1.7	3.9	17.6	77.2	87.3	166.5	12.7	(NA)	(NA)
MICHIGAN.	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	15	11	1.8	18.4	1.3	2.8	12.9	48.7	76.1	124.0	3.5	(NA)	(NA)
IOWA.	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	152	94	35.9	394.1	22.2	43.5	212.0	1 134.1	838.7	1 969.3	73.1	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	50	28	12.3	139.2	6.9	13.7	64.8	370.4	175.4	543.7	31.9	(NA)	(NA)
DELAWARE.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND.	8	6	1.5	13.6	1.0	2.1	8.9	34.8	38.1	73.5	6.3	(NA)	(NA)
VIRGINIA.	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA.	6	3	.7	6.6	.4	.9	3.5	15.6	19.5	34.0	3.3	(NA)	(NA)
SOUTH CAROLINA.	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	12	6	.3	3.5	.3	.6	2.2	13.6	25.6	39.4	3.9	(NA)	(NA)
FLORIDA.	E1	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	39	27	14.8	156.8	8.7	17.4	80.2	505.0	287.5	794.8	11.4	(NA)	(NA)
KENTUCKY.	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	17	11	11.3	121.8	6.4	12.9	59.6	388.4	131.9	522.2	4.5	(NA)	(NA)
ALABAMA.	11	7	1.2	12.6	.8	1.7	8.4	44.6	51.9	95.1	3.2	(NA)	(NA)
MISSISSIPPI.	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	63	39	8.7	98.1	6.5	12.5	67.0	258.7	375.8	630.7	29.8	(NA)	(NA)
ARKANSAS.	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	19	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA.	6	5	.5	4.3	.3	.5	2.3	13.0	7.1	19.5	(D)	(NA)	(NA)
TEXAS.	26	19	3.2	34.7	2.4	4.6	23.1	103.5	178.1	278.9	9.7	(NA)	(NA)
WEST REGION.	58	40	7.5	90.8	4.6	9.2	52.0	266.9	234.3	503.6	16.0	(NA)	(NA)
MOUNTAIN DIVISION.	18	14	2.8	35.6	1.8	3.7	21.7	113.8	152.3	267.6	8.4	(NA)	(NA)
MONTANA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDAHO.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW MEXICO.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEVADA.	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	40	26	4.6	55.2	2.8	5.5	30.3	153.1	81.9	236.0	7.5	(NA)	(NA)
WASHINGTON.	10	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	29	20	1.4	15.7	1.0	2.1	10.0	50.5	71.8	123.4	7.4	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

(See Appendix, Explanation of Terms)											
Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
2812-- ALKALIES AND CHLORINE											
ESTABLISHMENTS, TOTAL.	48	13.3	152.0	9.6	18.9	102.6	455.6	365.5	823.2	61.5	60.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	6	(Z)	.1	(Z)	(Z)	.1	.3	.2	.5	.1	.1
5 TO 9 EMPLOYEES E4	1	(Z)	.3	(Z)	(Z)	.1	.7	1.0	1.6	2.7	.1
10 TO 19 EMPLOYEES E5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	7	.2	2.6	.2	.3	1.7	10.8	13.5	24.3	(D)	1.0
50 TO 99 EMPLOYEES	8	.6	5.7	.4	.9	3.9	27.1	27.2	54.8	12.7	2.3
100 TO 249 EMPLOYEES	11	1.9	21.7	1.4	3.0	15.9	75.1	65.1	140.6	8.6	9.6
250 TO 499 EMPLOYEES	5	1.7	18.8	1.1	2.3	12.0	101.1	73.8	174.9	16.5	12.2
500 TO 999 EMPLOYEES	5	4.2	48.5	2.9	5.7	31.8	124.8	93.8	220.3	9.8	19.4
1,000 TO 2,499 EMPLOYEES	3	4.7	54.2	3.5	6.7	37.1	115.6	90.9	206.1	11.0	15.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2813-- INDUSTRIAL GASES											
ESTABLISHMENTS, TOTAL.	503	9.6	87.2	5.4	10.6	48.3	466.7	214.9	679.3	84.1	32.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E1	153	.3	2.6	.2	.3	1.5	14.4	7.4	21.9	5.5	1.3
5 TO 9 EMPLOYEES	105	.7	6.6	.5	1.0	4.7	46.0	20.4	66.1	16.5	2.3
10 TO 19 EMPLOYEES	107	1.4	13.2	1.0	1.9	8.9	97.6	36.8	134.5	14.9	4.2
20 TO 49 EMPLOYEES	90	2.9	25.9	1.5	3.0	13.5	134.9	55.9	189.4	15.5	12.0
50 TO 99 EMPLOYEES	35	2.4	22.2	1.1	2.1	9.7	121.0	54.2	175.1	13.5	7.6
100 TO 249 EMPLOYEES	12	1.9	16.6	1.2	2.2	10.0	52.9	40.3	92.3	18.2	5.3
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	24	.1	.7	(Z)	.1	.3	2.6	.9	3.5	.2	.1
2816-- INORGANIC PIGMENTS											
ESTABLISHMENTS, TOTAL.	114	12.8	134.6	9.0	18.3	87.8	382.6	394.9	796.9	38.9	137.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E6	14	(Z)	.3	(Z)	.1	.2	1.3	.9	2.1	.1	.4
5 TO 9 EMPLOYEES E2	15	.1	.9	.1	.2	.7	4.9	10.6	15.6	.3	1.4
10 TO 19 EMPLOYEES	16	.2	2.0	.1	.3	1.1	7.6	7.4	14.9	.3	2.1
20 TO 49 EMPLOYEES	22	.7	6.5	.5	1.1	4.2	18.1	34.8	53.1	2.7	6.7
50 TO 99 EMPLOYEES	16	1.1	10.9	.8	1.6	6.9	33.2	39.2	72.0	6.1	7.6
100 TO 249 EMPLOYEES	17	2.7	26.0	1.9	3.9	17.0	68.2	87.6	159.9	4.0	39.8
250 TO 499 EMPLOYEES	7	2.3	22.1	1.6	3.3	14.4	70.6	86.9	161.5	4.4	26.7
500 TO 999 EMPLOYEES	5	5.7	65.8	3.9	7.8	43.4	178.8	127.6	317.8	20.9	52.8
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	15	.1	.5	(Z)	.1	.3	2.5	2.5	5.1	.4	1.1
2819-- INDUSTRIAL INORGANIC CHEM., NEC											
ESTABLISHMENTS, TOTAL.	383	63.7	704.6	39.9	79.9	392.3	2 037.3	1 799.1	3 827.4	148.9	383.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	31	.1	.7	(Z)	.1	.4	2.5	5.7	9.0	.2	.4
5 TO 9 EMPLOYEES	40	.3	2.8	.2	.4	1.5	13.3	17.1	30.6	2.4	2.4
10 TO 19 EMPLOYEES	48	.7	7.3	.5	1.0	4.3	32.2	38.3	71.3	12.3	7.3
20 TO 49 EMPLOYEES	91	2.9	30.1	2.0	4.2	18.5	102.3	129.1	235.1	19.0	24.7
50 TO 99 EMPLOYEES	60	4.2	42.3	2.7	5.5	24.3	134.2	150.4	286.3	20.4	53.3
100 TO 249 EMPLOYEES	58	8.7	88.8	5.9	12.4	53.9	325.5	367.4	693.2	29.4	86.2
250 TO 499 EMPLOYEES	27	9.2	100.4	6.2	12.8	60.3	274.3	327.1	595.2	25.8	85.4
500 TO 999 EMPLOYEES	17	11.7	133.3	7.7	14.9	80.3	328.6	397.2	717.8	30.6	93.2
1,000 TO 2,499 EMPLOYEES	9	26.0	298.8	14.6	28.8	148.7	824.4	366.8	1 188.9	8.8	30.7
2,500 EMPLOYEES OR MORE	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2812	ALKALIES AND CHLORINE										
	ENTIRE INDUSTRY	48	13.3	152.0	9.6	18.9	102.6	455.6	365.5	823.2	61.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	32	3.8	41.8	2.7	5.3	28.6	127.9	111.4	239.9	19.9
28121	CHLORINE, COMPRESSED OR LIQUEFIED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	.2	1.5	.1	.2	1.0	4.9	8.7	13.6	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28122	SODIUM CARBONATE (SODA ASH) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	6	7.3	83.0	5.3	10.1	56.5	166.8	139.1	305.5	14.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28123	SODIUM HYDROXIDE (CAUSTIC SODA) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	27	5.8	66.3	4.1	8.4	44.3	280.6	215.4	498.7	38.6
28124	OTHER ALKALIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2813	INDUSTRIAL GASES										
	ENTIRE INDUSTRY	503	9.6	87.2	5.4	10.6	48.3	466.7	214.9	679.3	84.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	492	9.3	83.4	5.2	10.2	45.8	428.7	195.3	621.1	78.2
28132	ACETYLENE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	115	1.4	11.3	1.0	1.8	8.1	26.3	33.8	60.1	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	99	1.2	9.2	.9	1.6	7.0	20.7	31.1	51.8	3.2
28133	CARBON DIOXIDE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	40	.8	6.7	.3	.6	2.6	38.9	10.5	49.4	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	37	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28134	ELEMENTAL, COMPRESSED, LIQUEFIED GASES, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	261	6.8	63.7	3.8	7.6	35.1	379.5	162.6	539.7	55.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	233	6.0	56.7	3.4	6.8	31.2	332.4	136.9	466.2	52.3
2816	INORGANIC PIGMENTS										
	ENTIRE INDUSTRY	114	12.8	134.6	9.0	18.3	87.8	382.6	394.9	796.9	38.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	95	10.2	110.4	7.1	14.5	72.7	298.0	276.4	591.1	34.8
28161	TITANIUM PIGMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	13	5.8	66.6	4.0	8.0	43.2	204.1	149.4	364.0	21.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28162	OTHER WHITE OPAQUE PIGMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	9	1.2	10.2	1.0	2.0	7.4	40.3	54.5	94.8	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	5	.3	2.9	.3	.6	2.2	5.9	19.7	25.5	.3
28163	CHROME COLORS AND OTHER INORGANIC PIGMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	62	5.5	54.7	3.8	7.9	35.2	128.1	183.9	315.8	15.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	49	4.0	41.3	2.8	6.0	27.4	96.4	117.5	216.4	13.6
2819	INDUSTRIAL INORGANIC CHEMICALS, NEC										
	ENTIRE INDUSTRY	383	63.7	704.6	39.9	79.9	392.3	2 037.3	1 799.1	3 827.4	148.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	322	39.1	411.8	25.9	52.0	248.0	1 231.9	1 260.0	2 489.4	127.1
28193	SULFURIC ACID (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	41	2.2	23.4	1.6	3.2	15.1	111.9	80.3	194.4	18.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	31	1.0	11.0	.7	1.4	6.9	53.4	38.0	92.0	12.2
28194	INORGANIC ACIDS, EXC. NITRIC, SULFURIC, PHOSPHOR (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	12	1.4	15.7	.9	1.8	9.4	39.3	44.4	82.3	14.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	5	.1	1.3	.1	.2	.8	4.2	7.0	11.0	3.2
28195	ALUMINUM OXIDE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	10	6.5	76.5	5.1	9.5	54.6	166.2	320.9	482.7	18.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	6	3.2	39.3	2.5	4.7	27.8	88.9	195.0	279.9	9.9
28196	OTHER ALUMINUM COMPOUNDS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	48	.8	8.4	.5	1.1	5.0	32.2	37.8	70.6	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	39	.5	4.5	.3	.6	2.6	20.4	23.9	44.5	1.7
28197	POTASS., SODIUM COMP., EXC. BLEACH, ALKALI, ALUM. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	59	5.7	62.9	3.8	8.0	39.8	184.3	313.7	498.9	15.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	41	2.5	27.1	1.9	3.8	18.9	71.1	119.2	192.0	9.1
28198	CHEMICAL CATALYTIC PREPARATIONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	21	1.7	18.9	1.1	2.1	11.0	59.0	58.5	117.6	6.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	14	1.0	11.3	.6	1.3	6.3	39.1	34.9	74.6	6.0
28199	OTHER INORGANIC CHEMICALS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	170	21.0	215.5	13.8	28.5	125.6	662.3	680.0	1 334.3	68.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	128	13.0	131.9	8.5	17.4	74.9	428.8	414.0	840.1	43.6

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
2812	Alkalies and chlorine.....1972..	823.2	525.7	280.9	16.6	65	805.7	525.7	280.0	65
	.....1967..	719.8	465.4	231.8	22.7	67	623.0	465.4	157.6	75
2813	Industrial gases.....1972..	679.3	605.2	27.8	46.3	96	659.1	605.2	53.9	92
	.....1967..	588.7	481.7	19.3	87.8	96	543.4	481.7	61.7	89
2816	Inorganic pigments.....1972..	796.9	651.9	109.0	36.0	86	756.2	651.9	104.3	86
	.....1967..	549.3	472.0	53.7	23.5	90	560.8	472.0	88.7	84
2819	Industrial inorganic chemicals, n.e.c.....1972..	3,827.4	2,382.9	291.0	1,153.5	¹ 89	3,002.9	2,382.9	620.0	¹ 79
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

¹Government-owned, privately operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all dollar receipts for these establishments were included in "miscellaneous receipts."

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Alkalies and chlorine (SIC 2812)	Industrial gases (SIC 2813)	Inorganic pigments (SIC 2816)	Industrial inorganic chemicals, n.e.c. (SIC 2819)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	823.2	679.3	796.9	3,827.4	(X)
2812-	Alkalies and chlorine.....	805.7	525.7	-	-	30.7	249.3
28121	Chlorine, compressed or liquefied.....	210.2	148.9	-	-	14.0	47.3
28122	Sodium carbonate (soda ash).....	147.6	138.1	-	-	(under 2)	(5-10)
28123	Sodium hydroxide (caustic soda).....	410.9	217.1	-	-	16.4	177.4
28124	Other alkalies.....	33.7	18.3	-	-	(under 2)	(10-20)
28120	Alkalines and chlorine, n.s.k.....	3.3	3.3	-	-	-	-
2813-	Industrial gases.....	659.1	(5-10)	605.2	-	(2-5)	46.3
28132	Acetylene.....	96.0	(5-10)	58.6	-	(2-5)	31.7
28133	Carbon dioxide.....	45.7	(under 2)	(20-50)	-	-	(5-10)
28134	Elemental gases and compressed and liquefied gases, n.e.c.....	487.2	(under 2)	475.8	-	(under 2)	9.6
28130	Industrial gases, n.s.k.....	30.2	-	(20-50)	-	-	(under 2)
2816-	Inorganic pigments.....	756.2	-	-	651.9	9.8	94.5
28161	Titanium pigments.....	355.6	-	-	343.1	-	12.5
28162	Other white opaque pigments.....	101.0	-	-	(50-100)	2.7	(20-50)
28163	Chrome colors and other inorganic pigments.....	283.2	-	-	221.4	7.1	54.7
28160	Inorganic pigments, n.s.k.....	16.4	-	-	(10-20)	-	(under 2)
2819-	Industrial inorganic chemicals, n.e.c.....	3,002.9	62.6	(5-10)	(50-100)	2,382.9	502.2
28193	Sulfuric acid.....	245.4	(under 2)	-	(10-20)	164.0	64.4
28194	Inorganic acids, except nitric, sulfuric, and phosphoric.....	160.4	(5-10)	-	(under 2)	66.3	87.5
28195	Aluminum oxide.....	388.6	-	-	-	(200-500)	(under 2)
28196	Other aluminum compounds.....	175.5	(under 2)	-	-	155.4	(20-50)
28197	Potassium and sodium compounds (except bleaches, alkalines, and alums).....	503.1	(10-20)	-	(5-10)	398.6	84.5
28198	Chemical catalytic preparations.....	172.8	(under 2)	-	(under 2)	123.3	47.7
28199	Other inorganic chemicals, n.e.c.....	1,334.6	42.0	(5-10)	(20-50)	1,064.2	198.0
28190	Industrial inorganic chemicals, n.s.k.....	22.5	-	-	-	(20-50)	(under 2)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Alkalies and chlorine (SIC 2812)	Industrial gases (SIC 2813)	Inorganic pigments (SIC 2816)	Industrial inorganic chemicals, n.e.c. (SIC 2819)	Other industries
Shipments and miscellaneous receipts--Continued							
Other product shipments by 4-digit product group:							
1321	Natural gas liquids.....	(X)	-	(10-20)	-	-	(X)
2821	Plastics materials and resins.....	(X)	(5-10)	-	(2-5)	(10-20)	(X)
2833	Medicinals and botanicals.....	(X)	-	-	-	(2-5)	(X)
2841	Soap and other detergents.....	(X)	-	-	-	(5-10)	(X)
2842	Polishes and sanitation goods.....	(X)	(10-20)	-	-	(2-5)	(X)
2843	Surface active agents.....	(X)	(5-10)	-	-	(2-5)	(X)
2851	Paints and allied products.....	(X)	-	-	(5-10)	-	(X)
2865	Cyclic crudes and intermediates.....	(X)	(10-20)	-	(10-20)	(5-10)	(X)
2869	Industrial organic chemicals, n.e.c.....	(X)	91.0	-	13.9	82.2	(X)
2873	Nitrogenous fertilizers.....	(X)	6.1	(5-10)	-	21.2	(X)
2874	Phosphatic fertilizers.....	(X)	-	-	-	36.5	(X)
2879	Agricultural chemicals, n.e.c.....	(X)	(5-10)	-	-	(10-20)	(X)
2899	Chemical preparations, n.e.c.....	(X)	(10-20)	-	-	16.8	(X)
3241	Cement,hydraulic.....	(X)	(5-10)	-	-	-	(X)
3269	Pottery products, n.e.c.....	(X)	-	-	(2-5)	-	(X)
3295	Minerals, ground or treated.....	(X)	-	-	-	(2-5)	(X)
3333	Primary zinc.....	(X)	-	-	(2-5)	-	(X)
3341	Secondary nonferrous metals.....	(X)	-	-	(5-10)	(2-5)	(X)
3356	Nonferrous rolling and drawing, n.e.c.....	(X)	-	-	-	(10-20)	(X)
3369	Nonferrous foundries, n.e.c.....	(X)	-	-	(2-5)	-	(X)
3469	Metal stampings, n.e.c.....	(X)	-	-	-	(5-10)	(X)
	Other products.....	(X)	2.1	2.8	3.7	13.3	(X)
	Miscellaneous receipts.....	(X)	16.6	46.3	36.0	1,153.5	(X)
	Resales.....	(X)	16.4	44.7	32.2	91.8	(X)
	Other receipts.....	(X)	.2	1.6	3.8	1,061.7	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries		
	Listing of other industries with over \$2 million shipments of primary products			Listing of other industries with over \$2 million shipments of primary products--Continued			
2812-	2611 Pulpmills.....	(5-10)	2819-	2821 Plastics materials and resins.....	12.0		
	2865 Cyclic crudes and intermediates...	(5-10)		2823 Cellulosic manmade fibers.....	(5-10)		
	2869 Industrial organic chemicals, n.e.c.....	225.2		2824 Organic fibers, noncellulosic.....	(2-5)		
	2873 Nitrogenous fertilizers.....	(5-10)		2841 Soap and other detergents.....	13.5		
2813-	2821 Plastics materials and resins.....	(2-5)		2865 Cyclic crudes and intermediates....	46.7		
	2869 Industrial organic chemicals, n.e.c.....	32.3		2869 Industrial organic chemicals, n.e.c.....	213.4		
	2873 Nitrogenous fertilizers.....	3.8		2873 Nitrogenous fertilizers.....	25.7		
2816-	2851 Paints and allied products.....	9.9		2874 Phosphatic fertilizers.....	28.1		
	2865 Cyclic crudes and intermediates...	20.3		2879 Agricultural chemicals, n.e.c.....	21.5		
	2869 Industrial organic chemicals, n.e.c.....	(20-50)		2899 Chemical preparations, n.e.c.....	7.6		
	2899 Chemical preparations, n.e.c.....	14.5		2911 Petroleum refining.....	18.2		
3333	Primary zinc.....	(10-20)		3313 Electrometallurgical products.....	(10-20)		
2819-	1021 Copper ores.....	(2-5)		3331 Primary copper.....	19.5		
	1321 Natural gas liquids.....	14.8		3333 Primary zinc.....	7.4		
	2631 Paperboard mills.....	(10-20)		3334 Primary aluminum.....	(2-5)		
				3339 Primary nonferrous metals, n.e.c...	6.9		
				3443 Fabricated platework (boiler shops).	(10-20)		

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value	Quantity	Value
					(million dollars)		(million dollars)
				1972			
2812- --	ALKALIES AND CHLORINE: As reported in census of manufactures..... As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	805.7 790.1	(X) (X)	(X) (X)
28121 --	Chlorine, Compressed or Liquefied: As reported in census of manufactures ¹ As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	210.2 206.5	(X) (X)	(X) (X)
28121 11	Gas.....	1,000 s. tons.	² 10,402.3	635.5	25.2	418.5	17.4
28121 15	Liquid.....	..do....	5,015.0	4,242.8	181.3	3,794.8	162.2
28122 --	Sodium Carbonate (Soda Ash): As reported in census of manufactures ¹ As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	147.6 145.2	(X) (X)	(X) (X)
28122 51	Synthetic (58% Na ₂ O): ³ Crude bicarbonate equivalent.....	1,000 s. tons.	⁴ 4,304.9	(X)	(X)	(X)	(X)
28122 31	Finished bicarbonate ⁵.....	..do....	125.3	121.6	10.6	(D)	(D)
28122 41	Finished dense ash.....	..do....	2,331.3	2,353.7	82.0	(D)	(D)
28122 45	Finished light ash.....	..do....	⁶ 1,848.2	1,536.2	52.6	1,250.2	43.0
28123 --	Sodium Hydroxide (Caustic Soda): As reported in census of manufactures ¹ As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	410.9 407.9	(X) (X)	(X) (X)
28123 51 28123 70	All processes (100% NaOH).....	1,000 s. tons.	⁷ 10,215.8	(X)	(X)	(X)	(X)
28123 61 28123 71	68-74% liquid ⁸.....	..do....	833.9	712.4	31.7	688.9	30.7
28123 65 28123 75	All other liquid ⁸.....	..do....	8,805.8	6,790.1	326.2	6,127.1	294.1
28122 67 28122 77	Dry (all forms) ⁹.....	..do....	472.5	436.9	50.0	400.7	46.3
28124 --	Other Alkalies: As reported in census of manufactures ¹ As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	33.7 30.5	(X) (X)	(X) (X)
28124 21	Potassium hydroxide (caustic potash) (88-92% KOH): Total liquid.....	1,000 s. tons.	188.3	(X)	(X)	(X)	(X)
28124 22	Liquid.....	..do....	169.5	187.3	21.4	(D)	(D)
28124 23	Solid.....	..do....	18.7	13.3	3.1	(D)	(D)
28124 90	Other alkalies ¹⁰		(X)	(X)	6.0	(X)	(X)
28120 00	Alkalies and chlorine, n.s.k., reported in the census of manufactures for companies with 10 employees or more. (See note.).....		(X)	(X)	3.3	(X)	(X)
28120 02	Alkalies and chlorine, n.s.k., reported in the census of manufactures for companies with less than 10 employees. (See note.).....						
			1967				
2812- --	ALKALIES AND CHLORINE: As reported in census of manufactures..... As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	623.0 608.2	(X) (X)	(X) (X)
28121 --	Chlorine, Compressed or Liquefied As reported in census of manufactures ¹ As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	190.8 188.6	(X) (X)	(X) (X)
28121 11	Gas.....	1,000 s. tons.	² 7,679.9	419.3	21.7	340.4	17.2
28121 15	Liquid.....	..do....	3,935.8	3,260.0	166.9	3,028.0	154.2
28122 --	Sodium Carbonate (Soda Ash): As reported in census of manufactures ¹ As reported in Current Industrial Reports M28A.....		(X) (X)	(X) (X)	140.9 132.2	(X) (X)	(X) (X)
28122 51	Synthetic (58% Na ₂ O): ³ Crude bicarbonate equivalent.....	1,000 s. tons.	⁴ 4,848.9	(X)	(X)	(X)	(X)
28122 31	Finished bicarbonate ⁵.....	..do....	122.5	122.1	7.4	(D)	(D)
28122 41	Finished dense ash.....	..do....	2,592.1	2,527.4	74.7	(D)	(D)
28122 45	Finished light ash.....	..do....	⁶ 2,105.3	1,715.5	50.1	1,498.5	44.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments			
				Quantity	Value (million dollars)	Quantity	Value (million dollars)		
			1967						
2812- --	ALKALIES AND CHLORINE--Continued								
28123 --	Sodium Hydroxide (Caustic Soda):								
	As reported in census of manufactures ¹		(X)	(X)	254.9	(X)	(X)		
	As reported in Current Industrial Reports M28A.....		(X)	(X)	257.1	(X)	(X)		
28123 51	All processes (100% NaOH).....	1,000 s. tons.	78,397.9	(X)	(X)	(X)	(X)	(X)	(X)
28123 70									
28123 61	68-74% liquid ⁸.....	..do.....	912.5	689.3	29.6	638.2	27.5		
28123 71									
28123 65	All other liquid ⁸.....	..do.....	6,777.2	4,351.2	185.6	3,789.0	161.1		
28123 75									
28122 67	Dry (all forms) ⁹.....	..do.....	565.0	505.0	42.0	477.8	39.7		
28122 77									
28124 --	Other Alkalies:								
	As reported in census of manufactures ¹		(X)	(X)	35.2	(X)	(X)		
	As reported in Current Industrial Reports M28A.....		(X)	(X)	30.3	(X)	(X)		
28124 21	Potassium hydroxide (caustic potash) (88-92% KOH):								
	Total liquid.....	1,000 s. tons.	175.1	(X)	(X)	(X)	(X)		
28124 22	Liquid.....	..do.....	152.8	128.1	17.6	114.5	15.7		
28124 23	Solid.....	..do.....	22.2	21.1	4.5	(D)	(D)		
28124 90	Other alkalies ¹⁰.....	..do.....	(X)	(X)	8.2	(X)	(X)		
28120 00	Alkalies and chlorine, n.s.k., reported in the census of manufactures for companies with 10 employees or more. (See note.).....		(X)	(X)	1.3	(X)	(X)		
28120 02	Alkalies and chlorine, n.s.k., reported in the census of manufactures for companies with less than 10 employees. (See note.).....		(X)	(X)	(Z)	(X)	(X)		
			1972			1967			
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers		
				Quantity	Value (million dollars)		Quantity	Value (million dollars)	
2813- --	INDUSTRIAL GASES, TOTAL:								
	As reported in census of manufactures ¹		(X)	(X)	¹¹ 659.1	(X)	(X)	¹¹ 543.4	
	As reported in Current Industrial Reports M28C.....		(X)	(X)	¹¹ 607.2	(X)	(X)	¹¹ 588.1	
28132 --	Acetylene:								
28132 00	As reported in census of manufactures ¹		(X)	(X)	96.0	(X)	(X)	83.2	
	As reported in Current Industrial Reports M28C.....	Mil.cu.ft.	¹² 11,456	7,208	93.9	¹² 14,269	8,176	87.1	
28133 --	Carbon Dioxide:								
28133 00	As reported in census of manufactures ¹		(X)	(X)	45.7	(X)	(X)	48.0	
	As reported in Current Industrial Reports M28C.....	1,000 s. tons.	1,610.3	1,500.5	48.4	1,089.3	971.6	47.4	
28133 11	Liquid and gas.....	..do.....	¹³ 1,259.9	1,150.0	29.6	¹³ 717.2	618.9	29.4	
28133 31	Solid (dry ice).....	..do.....	350.3	350.5	18.8	372.1	352.7	18.0	
28134 --	Elemental Gases and Compressed and Liquefied Gases, N.E.C.:								
28134 00	As reported in census of manufactures ¹		(X)	(X)	487.2	(X)	(X)	390.8	
	As reported in Current Industrial Reports M28C.....		(X)	(X)	465.0	(X)	(X)	453.5	
28134 15	Argon, high purity (99.97-100%).....	Mil.cu.ft.	3,795	3,798	32.5	1,912	1,910	25.5	
	Helium ¹⁴.....	..do.....	4,094	489	(NA)	4,712	907	(NA)	
28134 20	Hydrogen.....	..do.....	¹⁵ 58,890	17,949	30.3	¹⁵ 158,539	27,666	39.1	
28134 40	Nitrogen ¹⁶.....	..do.....	193,540	176,833	130.4	¹⁷ 103,933	¹⁷ 91,941	¹⁷ 99.6	
	Gas.....	..do.....	127,960	112,889	33.4	(NA)	(NA)	(NA)	
	Liquid.....	..do.....	65,580	63,944	96.9	(NA)	(NA)	(NA)	
28134 50	Oxygen.....	..do.....	351,733	300,263	215.1	272,835	¹⁷ 220,802	¹⁷ 208.8	
	Gas.....	..do.....	(NA)	246,047	121.7	(NA)	(NA)	(NA)	
	Liquid.....	..do.....	(NA)	54,216	93.4	(NA)	(NA)	(NA)	
28134 71	Nitrous oxide.....	Mil. gal. (STP).	1,278.3	1,278.3	4.5	953.1	953.6	4.4	
28134 98	Other industrial gases, n.e.c., including crude argon, carbon dioxide produced and transferred for further processing, and crude and high purity helium produced in privately owned plants ¹⁸		(X)	(X)	56.7	(X)	(X)	¹⁹ 76.1	
28130 00	Industrial gases, n.s.k., as reported in census of manufactures for companies with 10 employees or more. (See note.).....		(X)	(X)	26.7	(X)	(X)	19.8	
28130 02	Industrial gases, n.s.k., as reported in census of manufactures for companies with less than 10 employees. (See note.).....		(X)	(X)	3.5	(X)	(X)	1.6	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
				1972			
2816- --	INORGANIC PIGMENTS, TOTAL.....		(X)	(X)	756.2	(X)	(X)
28161 11	Titanium Pigments, Composite and Pure (100% TiO ₂): As reported in census of manufactures ¹	1,000 s. tons.	705.5	742.6	355.6	(X)	(X)
	As reported in Current Industrial Reports M28A.....	...do....	693.3	725.0	346.6	622.4	291.2
28162 --	Other White Opaque Pigments.....		(X)	(X)	101.0	(X)	(X)
28162 13	White lead, basic carbonate and sulfate, excluding white lead in oil.	1,000 s. tons.	18.3	14.5	5.0	(X)	(X)
	Zinc oxide pigments:						
28162 21	Lead-free zinc oxide.....	...do....	226.6	239.7	79.2	(X)	(X)
28162 25	Leaded zinc oxide.....	...do....	(D)	(D)	(²⁰)	(X)	(X)
28162 98	All other white opaque pigments, including antimony oxide, lithopone, and pure zinc sulfide.....		(X)	(X)	²⁰ 12.8	(X)	(X)
28162 00	Other white opaque pigments, n.s.k.....		(X)	(X)	2.9	(X)	(X)
28163 --	Chrome Colors and Other Inorganic Pigments.....		(X)	(X)	283.2	(X)	(X)
	Chrome colors:						
28163 10	As reported in census of manufactures ¹		(X)	(X)	59.2	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	(NA)	(X)	(X)
28163 11	Chrome green (chrome yellow and iron blue) (C.P.) ²¹	1,000 s. tons.	(D)	(D)	(D)	(D)	(D)
28163 13	Chrome oxide green (C.P.) ²¹.....	...do....	6.2	5.9	5.9	(D)	(D)
28163 15	Chrome yellow and orange (C.P.) ²¹.....	...do....	33.8	32.0	24.5	29.5	22.7
28163 17	Molybdate chrome orange (C.P.) ²¹.....	...do....	12.4	12.3	13.7	(D)	(D)
28163 18	Zinc yellow (zinc chromate) (C.P.) ²¹.....	...do....	5.7	5.9	4.6	(D)	(D)
28163 19	Other chrome colors (C.P.) ²¹.....	...do....	(S)	(S)	(S)	(S)	(S)
28163 27	White extender pigments, including barytes, blanc fixe, and whiting.....	...do....	(S)	(S)	14.2	(X)	(X)
	Color pigments other than chrome colors and lakes and toners:						
28163 31	Iron oxide pigments.....	...do....	(S)	(S)	40.4	(X)	(X)
	Colored lead pigments:						
28163 41	Red lead.....	...do....	23.8	26.3	9.9	(X)	(X)
28163 45	Litharge.....	...do....	167.4	157.2	45.6	(X)	(X)
28163 51	Iron blues (Prussian blue, milori blue, etc.):						
	As reported in census of manufactures ¹.....	...do....	5.3	5.3	6.5	(X)	(X)
	As reported in Current Industrial Reports M28A.....	...do....	5.2	4.7	6.1	(D)	(D)
28163 61	Pearl essence.....	...do....	(D)	(D)	(²²)	(X)	(X)
28163 88	Carbon blacks (bone and lamp), excluding furnace and channel carbon black and charcoal.....	...do....	2.5	3.2	1.4	(X)	(X)
28163 91	Ceramic colors.....	...do....	(S)	53.8	37.0	(X)	(X)
28163 98	All other color pigments, including ultramarine blue (excluding organic pigments, lakes, and toners).....		(X)	(X)	²² 47.8	(X)	(X)
28163 00	Chrome colors and other inorganic pigments, n.s.k.....		(X)	(X)	9.7	(X)	(X)
28160 00	Inorganic pigments, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	11.3	(X)	(X)
28160 02	Inorganic pigments, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	5.1	(X)	(X)
				1967			
2816- --	INORGANIC PIGMENTS, TOTAL.....		(X)	(X)	560.8	(X)	(X)
28161 11	Titanium Pigments, Composite and Pure (100% TiO ₂): As reported in census of manufactures ¹	1,000 s. tons.	(X) 589.4	(X) 582.3	298.4 297.3	(X) 542.5	(X) 277.2
	As reported in Current Industrial Reports M28A.....	...do....					
28162 --	Other White Opaque Pigments.....		(X)	(X)	65.4	(X)	(X)
28162 13	White lead, basic carbonate and sulfate, excluding white lead in oil.	1,000 s. tons.	13.8	9.9	3.8	(X)	(X)
	Zinc oxide pigments:						
28162 21	Lead-free zinc oxide.....	...do....	(S)	(S)	46.9	(X)	(X)
28162 25	Leaded zinc oxide.....	...do....	(S)	(S)	2.6	(X)	(X)
28162 98	All other white opaque pigments, including antimony oxide, lithopone, and pure zinc sulfide.....		(X)	(X)	12.0	(X)	(X)
28162 00	Other white opaque pigments, n.s.k.....		(X)	(X)	-	(X)	(X)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value	Quantity	Value
					(million dollars)		(million dollars)
			1967				
2816- --	INORGANIC PIGMENTS--Continued						
28163 --	Chrome Colors and Other Inorganic Pigments.....		(X)	(X)	189.3	(X)	(X)
	Chrome colors:						
28163 10	As reported in census of manufactures ¹		(X)	(X)	42.0	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	(NA)	(X)	(X)
28163 11	Chrome green (chrome yellow and iron blue) (C.P.) ²¹	1,000 s. tons.	2.7	2.7	2.4	(D)	(D)
28163 13	Chrome oxide green (C.P.) ²¹.....	..do....	5.2	5.4	5.2	(D)	(D)
28163 15	Chrome yellow and orange (C.P.) ²¹.....	..do....	30.7	29.8	20.5	26.9	18.5
28163 17	Molybdate chrome orange (C.P.) ²¹.....	..do....	10.4	10.1	9.5	9.3	8.7
28163 18	Zinc yellow (zinc chromate) (C.P.) ²¹.....	..do....	7.8	7.6	4.3	(D)	(D)
28163 19	Other chrome colors (C.P.) ²¹.....	..do....	(NA)	(NA)	(NA)	(NA)	(NA)
28163 27	White extender pigments, including barytes, blanc fixe, and whiting.....	..do....	212.7	212.8	5.8	(X)	(X)
	Color pigments other than chrome colors and lakes and toners:						
28163 31	Iron oxide pigments.....	..do....	(S)	(S)	36.7	(X)	(X)
	Colored lead pigments:						
28163 41	Red lead.....	..do....	(S)	(S)	8.9	(X)	(X)
28163 45	Litharge.....	..do....	(S)	(S)	30.5	(X)	(X)
28163 51	Iron blues (Prussian blue, milori blue, etc.) ²¹.....	..do....	(S)	(S)	5.8	(D)	(D)
28163 61	Pearl essence.....	..do....	(S)	(S)	2.9	(X)	(X)
28163 88	Carbon blacks (bone and lamp), excluding furnace and channel carbon black and charcoal.....	..do....	(S)	(S)	(²³)	(X)	(X)
28163 91	Ceramic colors.....	..do....	40.3	40.6	19.9	(X)	(X)
28163 98	All other color pigments, including ultramarine blue (excluding organic pigments, lakes, and toners).....	..do....	(X)	(X)	²³ 34.1	(X)	(X)
28163 00	Chrome colors and other inorganic pigments, n.s.k.....	..do....	(X)	(X)	2.8	(X)	(X)
28160 00	Inorganic pigments, n.s.k., for companies with 10 employees or more. (See note.).....	..do....	(X)	(X)	5.6	(X)	(X)
28160 02	Inorganic pigments, n.s.k., for companies with less than 10 employees. (See note.).....	..do....	(X)	(X)	2.0	(X)	(X)
			1972				
2819- --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.:						
	As reported in census of manufactures ¹		(X)	(X)	3,002.9	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	²⁴ 3,095.3	(X)	(X)
28193 --	Sulfuric Acid:						
	As reported in census of manufactures.....		(X)	(X)	245.4	(X)	(X)
	As reported in Current Industrial Reports M28A.....	1,000 s. tons.	31,183.9	13,061.5	238.0	11,748.4	217.0
	Contact acid:						
28193 11	Oleum under 40%.....	..do....	1,845.6	1,391.9	28.5	(D)	(D)
28193 15	Oleum 40%.....	..do....	534.6	(D)	(D)	(D)	(D)
28193 17	Oleum over 40%.....	..do....	516.7	(D)	(D)	(D)	(D)
28193 31	Other than oleum grades.....	..do....	28,438.2	11,135.4	198.5	10,123.8	182.5
28193 51	Chamber acid.....	..do....	142.8	26.5	.3	21.5	.3
28193 71	Spent acid used in fortification in contact units and included in production reported above, including acid from own production or received from outside sources.....	..do....	1,203.4	(X)	(X)	(X)	(X)
28194 --	Inorganic Acids, Except Nitric and Sulfuric:						
	As reported in census of manufactures ¹		(X)	(X)	160.4	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	195.0	(X)	(X)
28194 11	Boric (boraic) (100% H ₃ BO ₃).....	1,000 s. tons.	121.5	106.4	11.1	(D)	(D)
28194 31	Chromic acid (100% CrO ₃) ²⁵.....	..do....	27.1	27.9	15.8	(D)	(D)
	Hydrochloric, including anhydrous (100% HCl) ²⁶.....	..do....	2,334.8	872.5	39.3	(D)	(D)
28194 41	From salt.....	..do....	113.8	96.4	4.2	(D)	(D)
28194 45	From chlorine.....	..do....	102.9	96.5	3.7	(D)	(D)
28194 47	Byproduct and other.....	..do....	2,118.2	679.5	31.4	630.0	28.8
28194 51	Hydrocyanic, including anhydrous (100% HCN).....	..do....	135.8	(D)	(²⁷)	(D)	(D)
	Hydrofluoric (100% HF):						
28194 61	Anhydrous.....	..do....	241.1	165.9	52.7	(D)	(D)
28194 65	Technical.....	..do....	17.8	17.0	7.9	(D)	(D)
28194 67	Mixed (sulfuric and nitric).....	..do....	204.5	(D)	(²⁷)	(D)	(D)
28194 98	Other inorganic acid acids, n.e.c.....	..do....	(X)	(X)	²⁷ 29.1	(X)	(X)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments		
				Quantity	Value	Quantity	Value	
					(million dollars)		(million dollars)	
			1972					
2819- --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.--Continued							
28195 --	Aluminum Oxide, Except Natural Alumina (100% Al ₂ O ₃):		(X)	(X)	388.6	(X)	(X)	
28195 00	As reported in census of manufactures.....							
28195 11	As reported in Current Industrial Reports MA28A.....	1,000 s. tons.	6,204.4	5,937.4	387.9	1,484.7	118.	
28196 --	Other Aluminum Compounds:							
28196 00	As reported in census of manufactures.....		(X)	(X)	175.5	(X)	(X)	
	As reported in Current Industrial Reports M28A.....		(X)	(X)	179.6	(X)	(X)	
28196 11	Chloride: Liquid (32°Be ¹).....	1,000 s. tons.	}	(D)	(D)	(²⁸)	(D)	(D)
28196 15	Crystal (32°Be ¹).....	..do....						
28196 17	Anhydrous (100% AlCl ₃).....	..do....		33.4	32.4	8.9	(D)	(D)
28196 25	Hydroxide; trihydrate (100% Al ₂ O ₃ ·3H ₂ O).....	..do....		529.3	502.6	47.2	(D)	(D)
28196 27	Fluoride (technical).....	..do....		138.9	136.5	36.1	49.8	15.5
28196 51	Sulfate: Commercial (17% Al ₂ O ₃).....	..do....	²⁸ 1,256.3	1,194.1	51.6	1,190.5	51.5	
28196 55	Iron free (17% Al ₂ O ₃).....	..do....	139.1	116.6	4.3	(D)	(D)	
28196 71	Other inorganic aluminum compounds, including sodium aluminate, light aluminum hydroxide, cryolite, and alums.....		(X)	(X)	²⁸ 31.6	(X)	(X)	
28197 --	Potassium and Sodium Compounds (Except Bleaches, Alkalies, and Alums):							
28197 00	As reported in census of manufactures.....		(X)	(X)	503.1	(X)	(X)	
	As reported in Current Industrial Reports M28A.....		(X)	(X)	²⁴ 662.0	(X)	(X)	
28197 13	Potassium compounds, n.e.c.: Iodide (100% KI).....	1,000 s. tons.	1.1	1.0	4.5	1.0	4.5	
28197 16	Sulfate (100% K ₂ SO ₄).....	..do....	402.2	382.0	16.4	(D)	(D)	
28197 18	Tetrapotassium pyrophosphate (100% K ₂ P ₂ O ₇).....	..do....	49.2	24.9	5.0	(D)	(D)	
28197 17	Other potassium salts and compounds, n.e.c.....		(X)	(X)	95.1	(X)	(X)	
28197 21	Sodium (metal) (100% Na).....	1,000 s. tons.	160.5	109.6	37.2	(D)	(D)	
	Sodium compounds, n.e.c.:							
28197 24	Borate (borax).....	..do....	549.9	166.3	10.4	(D)	(D)	
28197 27	Chlorate (100% NaClO ₃).....	..do....	193.8	130.4	16.7	(D)	(D)	
28197 28	Fluoride.....	..do....	6.2	5.8	2.2	(D)	(D)	
28197 29	Hydrosulfide (sodium sulfhydrate) (100% NaSH).....	..do....	28.1	25.8	2.9	(D)	(D)	
28197 30	Hydrosulfite (100% Na ₂ S ₂ O ₄).....	..do....	46.7	46.9	22.9	46.9	22.9	
28197 32	Phosphate: Monobasic (100% NaH ₂ PO ₄).....	..do....	³⁰ 33.6	33.6	7.1	(D)	(D)	
28197 33	Dibasic (100% Na ₂ HPO ₄).....	..do....	³⁰ 20.8	20.9	4.9	(D)	(D)	
28197 34	Tribasic (100% Na ₃ PO ₄).....	..do....	57.9	59.2	10.5	(D)	(D)	
28197 35	Tetrabasic (100% Na ₄ P ₂ O ₇).....	..do....	46.4	47.8	8.7	(D)	(D)	
28197 36	Meta (100% NaPO ₃).....	..do....	79.5	79.5	16.7	(D)	(D)	
28197 37	Acid pyro (100% Na ₂ H ₂ P ₂ O ₇).....	..do....	27.2	26.4	6.7	(D)	(D)	
28197 38	Tripoly (100% Na ₃ P ₃ O ₁₀).....	..do....	1,032.7	1,025.9	143.6	(D)	(D)	
28197 39	Other sodium phosphates.....		(X)	(X)	(³¹)	(X)	(X)	
28197 41	Silicates: Soluble silicate glass (water glass) solid and liquid (anhydrous).....	1,000 s. tons.	³² 660.6	490.8	46.1	(D)	(D)	
28197 43	Metasilicate (100% Na ₂ SiO ₃ ·5H ₂ O).....	..do....	³³ 276.9	³³ 214.3	³³ 21.1	(D)	(D)	
28197 45	Orthosilicate (100% Na ₄ SiO ₄).....	..do....	(³³)	(³³)	(³³)	(D)	(D)	
28197 51	Silicofluoride (100% Na ₂ SiF ₆).....	..do....	57.4	54.2	6.3	(D)	(D)	
28197 61	Sulfate: High purity (refined) (100% Na ₂ SO ₄).....	..do....	800.5	845.1	16.9	(D)	(D)	
28197 65	Low purity (99% or less Na ₂ SO ₄) (100% Na ₂ SO ₄).....	..do....						
28197 67	Glauber's salt (100% Na ₂ SO ₄ ·10H ₂ O).....	..do....	526.5	505.6	11.1	(D)	(D)	
28197 81	Sulfide: Crystal.....	..do....	}					
28197 82	Concentrated (60-62% Na ₂ S).....	..do....		143.6	128.0	4.8	128.0	4.8
28197 83	Other, including liquid and crystal (60-62% Na ₂ S).....	..do....						
28197 84	Sulfite (100% Na ₂ SO ₃).....	..do....	223.3	219.2	9.4	(D)	(D)	
28197 85	Thiosulfate (hypo) (100% Na ₂ S ₂ O ₃ ·5H ₂ O).....	..do....	21.6	24.0	2.7	23.4	2.6	
28197 87	Other sodium compounds, n.e.c.....		(X)	(X)	³¹ 131.4	(X)	(X)	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value	Quantity	Value
					(million dollars)		(million dollars)
			1972				
2819- --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.--Continued						
28198 --	Chemical Catalytic Preparations:						
28198 00	As reported in census of manufactures ¹		(X)	(X)	172.8	(X)	(X)
28198 11	As reported in Current Industrial Reports M28A.....		(X)	(X)	158.5	(X)	(X)
28199 --	Other Inorganic Chemicals, N.E.C.:						
28199 30	As reported in census of manufactures ¹		(X)	(X)	³⁴ 1,334.6	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	²⁴ 1,311.7	(X)	(X)
28199 01	Reagent and high purity grades of inorganic chemicals refined from purchased technical grades.....		(X)	(X)	44.5	(X)	(X)
28199 02	Antimony compounds, (excluding pigment grades).....		(X)	(X)	7.4	(X)	(X)
28199 03	Arsenic compounds, including white arsenic.....		(X)	(X)	2.1	(X)	(X)
	Barium compounds:						
28199 04	Carbonate (precipitated) (100% BaCO ₃).....	1,000 s. tons.	47.7	38.7	5.4	37.5	5.4
28199 06	Other barium compounds ³⁵		(X)	(X)	8.1	(X)	(X)
	Bismuth compounds:						
28199 07	Subcarbonate (100% (Bi ₂ O ₂ CO ₃).H ₂ O).....	1,000 s. tons.	(Z)	(Z)	.3	(Z)	(Z)
28199 09	Other bismuth compounds.....		(X)	(X)	2.2	(X)	(X)
28199 10	Bromine (100% Br).....	1,000 s. tons.	(NA)	50.2	14.1	(D)	(D)
28199 11	Cadium compounds.....		(X)	(X)	8.4	(X)	(X)
	Calcium compounds:						
28199 12	Carbide (commercial).....	1,000 s. tons.	493.4	355.0	37.2	(D)	(D)
28199 13	Carbonate (precipitated) (100% CaCO ₃).....	...do....	220.9	195.7	12.2	(D)	(D)
	Chloride:						
28199 14	Solid, excluding flake (73-75% CaCl ₂).....	...do....	650.2	666.8	26.1	(D)	(D)
28199 15	Flake (77-80% CaCl ₂).....	...do....					
28199 16	Liquid (40-45% CaCl ₂).....	...do....					
			³⁶ 518.6	502.1	4.9	(D)	(D)
28199 41	Calcium hypochlorite (high test) (70% avail. Cl).....	...do....	(D)	(D)	(³⁷)	(D)	(D)
	Phosphate:						
	Dibasic:						
28199 19	Animal feed grades.....	...do....	599.0	587.5	52.9	(D)	(D)
28199 20	Other grades (except fertilizer grades).....	...do....					
28199 18	Monobasic.....	...do....					
28199 21	Tribasic.....	...do....	(X)	(X)	9.7	(X)	(X)
28199 23	Other inorganic calcium compounds.....		(X)	(X)	³⁷ 35.8	(X)	(X)
	Carbon, activated: ³⁸						
28199 24	Decolorizing.....	1,000 s. tons.	83.4	80.5	28.5	(D)	(D)
28199 26	Water purification.....	...do....					
	Chromium compounds:						
	Bichromates and chromates:						
28199 29	Sodium bichromate and chromate (hydrous).....	...do....	146.7	95.9	24.5	(D)	(D)
28199 31							
28199 32	Other chromium compounds including potassium bichromate and chromate (hydrous) (excluding chrome colors).....		(X)	(X)	8.9	(X)	(X)
28199 33	Cobalt compounds.....		(X)	(X)	10.8	(X)	(X)
	Copper compounds:						
28199 34	Cupric oxide (100% CuO).....	1,000 s. tons.	1.9	1.6	1.4	(D)	(D)
28199 35	Cuprous oxide (100% Cu ₂ O).....	...do....	1.9	1.9	2.0	(D)	(D)
28199 36	Copper sulfate (100% CuSO ₄ .5H ₂ O).....	...do....	(D)	(D)	(³⁹)	(D)	(D)
28199 37	Other copper compounds (including copper cyanide).....	...do....	(X)	(X)	³⁹ 23.5	(X)	(X)
28199 39	Hydrogen peroxide.....	1,000 s. tons.	⁴⁰ 75.3	56.5	31.0	(D)	(D)
28199 40	Iodine, crude or resublimed (100% I).....	1,000 lb..	(S)	(S)	1.5	(D)	(D)
	Iron compounds:						
28199 42	Ferric chloride (100% FeCl ₃).....	1,000 s. tons.	78.0	73.2	5.8	(D)	(D)
28199 43	Ferrous sulfate (100% FeSO ₄ .7H ₂ O).....	...do....	(D)	(D)	(⁴¹)	(D)	(D)
28199 44	Other iron compounds ³⁵		(X)	(X)	⁴¹ 3.8	(X)	(X)
	Lead compounds:						
28199 45	Nitrate.....		(X)	(X)	21.6	(X)	(X)
28199 47	Other lead compounds (excluding pigment grade).....						
	Magnesium compounds:						
28199 48	Sulfate, including Epsom salts (100% MgSO ₄).....		(X)	(X)	41.6	(X)	(X)
28199 49	Other magnesium compounds.....						

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value	Quantity	Value
					(million dollars)		(million dollars)
			1972				
2819- -- 28199 --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.--Continued Other Inorganic Chemicals, N.E.C.--Continued As reported in Current Industrial Reports M28A--Continued						
28199 50	Manganese compounds: Sulfate (100% MnSO ₄ ·4H ₂ O).....	1,000 s. tons.	31.6	33.0	3.1	(D)	(D)
28199 51 28199 52	Other manganese compounds, including potassium and other permanganates and manganese dioxide, battery grade.....		(X)	(X)	13.5	(X)	(X)
28199 53	Mercury and compounds: Mercury, redistilled (lb.).....	1,000 s. tons.	345.2	350.2	1.3	350.2	1.3
28199 55	Other mercuric compounds, except mercuric fulminate and medicinal grades.....		(X)	(X)	2.1	(X)	(X)
28199 90	Molybdenum, platinum, radium, strontium, tantalum, thallium, and tungsten compound.....		(X)	(X)	107.6	(X)	(X)
28199 56	Nickel compounds: Sulfate (100% NiSO ₄ ·6H ₂ O).....	1,000 s. tons.	10.3	9.3	6.9	9.3	6.9
28199 57	Other nickel compounds.....		(X)	(X)	8.3	(X)	(X)
28199 58	Phosphorus and compounds: Phosphorus elemental: White (yellow) (technical).....	1,000 s. tons.	540.8	512.1	190.2	29.1	11.3
28199 59	Red (technical).....	do.....					
28199 60	Oxychloride (100% POCl ₃).....	do.....					
28199 63	Trichloride (chloride) (100% PCl ₃).....	do.....					
28199 61	Pentasulfide (100% P ₂ S ₅).....	do.....					
28199 64	Other phosphorus compounds.....		(X)	(X)	(⁴²)	(X)	(X)
28199 65	Rare earth compounds.....		(X)	(X)	20.1	(X)	(X)
28199 66	Selenium compounds.....		(X)	(X)	1.8	(X)	(X)
28199 68 28199 69 28199 70	Silica gel: Butadiene catalyst grade..... Desiccant grade..... Aviation gas catalyst grade.....		(X)	(X)	64.4	(X)	(X)
28199 71	Silver compounds: Cyanide (100% AgCN).....	1,000 av. oz.					
28199 72	Nitrate (100% AgNO ₃) ⁴³	do.....					
28199 73	Other silver compounds.....						
28199 74	Sulfur, recovered elemental ⁴⁴	1,000 l. tons.	1,950.0	1,927.0	30.1	(NA)	(NA)
28199 75	Sulfur compounds: Dioxide (produced for sale) (100% SO ₂).....	do.....	100.2	97.6	5.7	(D)	(D)
28199 77	Other sulfur compounds (including sulfur chloride).....		(X)	(X)	13.8	(X)	(X)
28199 80	Tin compounds: Oxide (stannic) (100% SnO ₂).....	1,000 s. tons.	(D)	(D)	(⁴⁵)	(D)	(D)
28199 81	Other tin compounds (including stannic and stannous chloride).....		(X)	(X)	⁴⁵ 19.8	(X)	(X)
28199 87	Zinc compounds: Sulfate (100% ZnSO ₄ ·7H ₂ O).....	1,000 s. tons.	44.7	46.1	6.8	(D)	(D)
28199 88	Other zinc compounds excluding pigment grades.....	do.....	(X)	(X)	13.6	(X)	(X)
28199 91	Radioactive isotopes shipped from non-AEC plants producing isotopes ⁴⁶		(X)	(X)	30.8	(X)	(X)
28199 92	Radiation sources and other radioactive materials produced from purchased isotopes ⁴⁶		(X)	(X)	16.4	(X)	(X)
28199 94 28199 95 28199 98	Industrial bleaches including liquid lime bleaches..... All other inorganic chemicals, n.e.c. ^{38, 42}		(X)	(X)	5.8	(X)	(X)
			(X)	(X)	224.7	(X)	(X)
28190 00	Industrial inorganic chemicals, n.s.k., reported in census of manufactures, for companies with 10 employees or more. (See note.).		(X)	(X)	22.5	(X)	(X)
28190 02	Industrial inorganic chemicals, n.s.k., reported in census of manufactures, for companies with less than 10 employees. (See note.).		(X)	(X)	-	(X)	(X)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
				1967			
2819- --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.:						
	As reported in census of manufactures ¹		(X)	(X)	⁴⁷ (NA)	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	²⁴² 2,674.5	(X)	(X)
28193 --	Sulfuric Acid:						
28193 00	As reported in census of manufactures.....		(X)	(X)	250.6	(X)	(X)
	As reported in Current Industrial Reports M28A.....	1,000 s. tons.	28,815.2	13,500.6	252.2	12,278.9	228.7
	Contact acid:						
28193 11	Oleum under 40%.....	..do....	2,070.0	1,492.2	29.4	1,182.2	22.9
28193 15	Oleum 40%.....	..do....	751.1	(D)	(D)	(D)	(D)
28193 17	Oleum over 40%.....	..do....	228.1	(D)	(D)	(D)	(D)
28193 31	Other than oleum grades.....	..do....	24,922.3	11,053.6	203.8	10,222.6	188.1
28193 51	Chamber acid.....	..do....	843.7	215.4	4.2	178.6	3.7
28193 71	Spent acid used in fortification in contact units and included in production reported above, including acid from own production or received from outside sources.....		1,079.7	(X)	(X)	(X)	(X)
28194 --	Inorganic Acids, Except Nitric and Sulfuric:						
	As reported in census of manufactures ¹		(X)	(X)	⁴⁷ (NA)	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	117.2	(X)	(X)
28194 11	Boric (boracic) (100% H ₃ BO ₃).....	1,000 s. tons.	122.4	101.6	10.0	(D)	(D)
28194 31	Chromic acid (100% CrO ₃) ²⁵.....	..do....	22.0	21.8	11.9	(D)	(D)
	Hydrochloric, including anhydrous (100% HCl) ²⁶.....	..do....	1,630.2	695.7	31.1	(D)	(D)
28194 41	From salt.....	..do....	136.4	104.0	5.1	(D)	(D)
28194 45	From chlorine.....	..do....	121.7	99.4	5.0	(D)	(D)
28194 47	Byproduct and other.....	..do....	1,372.1	492.3	21.0	443.2	19.1
28194 51	Hydrocyanic, including anhydrous (100% HCN).....	..do....	126.1	(D)	(²⁷)	(D)	(D)
	Hydrofluoric (100% HF):						
28194 61	Anhydrous.....	..do....	161.3	118.4	32.3	(D)	(D)
28194 65	Technical.....	..do....	22.3	22.3	6.1	(D)	(D)
28194 67	Mixed (sulfuric and nitric).....	..do....	306.3	(D)	(²⁷)	(D)	(D)
28194 98	Other inorganic acid acids, n.e.c.....		(X)	(X)	²⁷ 25.8	(X)	(X)
28195 --	Aluminum Oxide, Except Natural Alumina (100% Al ₂ O ₃):						
28195 00	As reported in census of manufactures ¹		(X)	(X)	402.4	(X)	(X)
	As reported in Current Industrial Reports M28A.....	1,000 s. tons.	6,045.6	6,021.8	409.5	734.6	57.7
28196 --	Other Aluminum Compounds:						
28196 00	As reported in census of manufactures ¹		(X)	(X)	127.2	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	122.6	(X)	(X)
	Chloride:						
28196 11	Liquid (32° Be ¹).....	1,000 s. tons.	} 22.4	11.7	1.0	(D)	(D)
28196 15	Crystal (32° Be ¹).....	..do....					
28196 17	Anhydrous (100% AlCl ₃).....	..do....					
28196 25	Hydroxide; trihydrate (100% Al ₂ O ₃ ·3H ₂ O).....	..do....					
28196 27	Fluoride (technical).....	..do....	131.6	131.5	30.9	(D)	(D)
	Sulfate:						
28196 51	Commercial (17% Al ₂ O ₃).....	..do....	²⁹ 1,101.5	1,073.9	43.2	(D)	(D)
28196 55	Iron free (17% Al ₂ O ₃).....	..do....	60.2	36.6	2.2	(D)	(D)
28196 71	Other inorganic aluminum compounds, (including sodium aluminate, light aluminum hydroxide, cryolite, and alums).....		(X)	(X)	16.7	(X)	(X)
28197 --	Potassium and Sodium Compounds (Except Bleaches, Alkalies, and Alums):						
28197 00	As reported in census of manufactures ¹		(X)	(X)	455.7	(X)	(X)
	As reported in Current Industrial Reports M28A.....		(X)	(X)	565.0	(X)	(X)
	Potassium compounds, n.e.c.:						
28197 13	Iodide (100% KI).....	1,000 s. tons.	.8	.8	1.6	(D)	(D)
28197 16	Sulfate (100% K ₂ SO ₄).....	..do....	244.0	219.8	8.2	(D)	(D)
28197 18	Tetrapotassium pyrophosphate (100% K ₂ P ₂ O ₇).....	..do....	54.9	46.2	9.2	(D)	(D)
28197 17	Other potassium salts and compounds, n.e.c.....	..do....	(X)	(X)	97.2	(X)	(X)
28197 21	Sodium (metal) (100% Na).....	1,000 s. tons.	164.5	100.2	30.8	(D)	(D)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
				1967			
2819- --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.--Continued						
28197 --	Potassium and Sodium Compounds (Except Bleaches, Alkalies, and Alums)--Continued						
	As reported in Current Industrial Reports M28A--Continued						
	Sodium compounds, n.e.c.:						
28197 24	Borate (borax).....	1,000 s. tons.	524.9	175.4	9.5	(D)	(D)
28197 27	Chlorate (100% NaClO ₃).....	..do....	155.5	141.4	17.5	(D)	(D)
28197 28	Fluoride.....	..do....	7.1	6.8	1.8	6.8	1.8
28197 29	Hydrosulfide (sodium sulfhydrate) (100% NaSH).....	..do....	43.5	38.9	3.7	36.8	3.5
28197 30	Hydrosulfite (100% Na ₂ S ₂ O ₄).....	..do....	36.0	36.0	16.7	36.0	16.7
	Phosphate:						
28197 32	Monobasic (100% NaH ₂ PO ₄).....	..do....	³⁰ 17.4	18.0	3.3	(D)	(D)
28197 33	Dibasic (100% Na ₂ HPO ₄).....	..do....	³⁰ 22.6	22.0	3.5	(D)	(D)
28197 34	Tribasic (100% Na ₃ PO ₄).....	..do....	61.7	56.9	8.9	(D)	(D)
28197 35	Tetrabasic (100% Na ₄ P ₂ O ₇).....	..do....	108.8	105.6	12.8	(D)	(D)
28197 36	Meta (100% NaPO ₃ NaPO ₃).....	..do....	88.1	86.0	14.1	85.5	14.1
28197 37	Acid pyro (100% Na ₂ H ₂ P ₂ O ₇).....	..do....	25.2	23.8	4.8	(D)	(D)
28197 38	Tripoly (100% Na ₃ P ₃ O ₁₀).....	..do....	1,048.1	1,010.9	127.6	(D)	(D)
28197 39	Other sodium phosphates.....	..do....	(X)	(X)	9.2	(X)	(X)
	Silicates:						
28197 41	Soluble silicate glass (water glass) solid and liquid (anhydrous).....	1,000 s. tons.	³² 612.6	439.4	29.9	(D)	(D)
28197 43	Metasilicate (100% Na ₂ SiO ₃ ·5H ₂ O).....	..do....	219.0	173.1	15.1	(D)	(D)
28197 45	Orthosilicate (100% Na ₄ SiO ₄).....	..do....	43.0	42.3	4.3	(D)	(D)
28197 51	Silicofluoride (100% Na ₂ SiF ₆).....	..do....	52.3	48.8	6.8	(D)	(D)
	Sulfate:						
28197 61	High purity (refined) (100% Na ₂ SO ₄).....	..do....	667.8	687.1	15.0	(D)	(D)
28197 65	Low purity (99% or less Na ₂ SO ₄) (100% Na ₂ SO ₄).....	..do....	696.2	696.8	15.1	(D)	(D)
28197 67	Glauber's salt (100% Na ₂ SO ₄ ·10H ₂ O).....	..do....					
	Sulfide:						
28197 82	Concentrated (60-62% Na ₂ S).....	..do....	22.2	14.8	1.6	14.8	1.6
28197 83	Other, including liquid and crystal (60-62% Na ₂ S).....	..do....	⁴⁸ 79.4	69.8	2.1	69.8	2.1
28197 84	Sulfite (100% Na ₂ SO ₃).....	..do....	249.5	245.8	11.7	(D)	(D)
28197 87	Other sodium compounds, n.e.c.....	..do....	(X)	(X)	83.0	(X)	(X)
28198 --	Chemical Catalytic Preparations: ¹						
28198 00	As reported in census of manufactures.....	..do....	(X)	(X)	123.1	(X)	(X) ¹
28198 11	As reported in Current Industrial Reports M28A.....	..do....	(X)	(X)	113.0	(X)	(X)
28199 --	Other Inorganic Chemicals, N.E.C.:						
28199 00	As reported in census of manufactures.....	..do....	(X)	(X)	1,035.5	(X)	(X)
	As reported in Current Industrial Reports M28A.....	..do....	(X)	(X)	²⁴ 1,095.0	(X)	(X)
28199 01	Reagent and high purity grades of inorganic chemicals refined from purchased technical grades.....	..do....	(X)	(X)	48.5	(X)	(X)
28199 02	Antimony compounds, (excluding pigment grades).....	..do....	(X)	(X)	6.3	(X)	(X)
28199 03	Arsenic compounds, including white arsenic.....	..do....	(X)	(X)	1.4	(X)	(X)
	Barium compounds:						
28199 04	Carbonate (precipitated) (100% BaCO ₃).....	1,000 s. tons.	82.2	59.6	6.6	59.6	6.6
28199 06	Other barium compounds ³⁵.....	..do....	(X)	(X)	11.1	(X)	(X)
	Bismuth compounds:						
28199 07	Subcarbonate (100% (Bi ₂ O ₂ CO ₃)·H ₂ O).....	1,000 s. tons.	.1	.1	.6	.1	.6
28199 09	Other bismuth compounds.....	..do....	(X)	(X)	(⁴⁹)	(X)	(X)
28199 10	Bromine (100% Br).....	1,000 s. tons.	(NA)	26.1	8.9	(D)	(D)
28199 11	Cadmium compounds.....	..do....	(X)	(X)	7.0	(X)	(X)
	Calcium compounds:						
28199 12	Carbide (commercial).....	1,000 s. tons.	912.3	564.4	53.2	(D)	(D)
28199 13	Carbonate (precipitated) (100% CaCO ₃).....	..do....	216.4	193.8	10.5	(D)	(D)
	Chloride:						
28199 14	Solid, excluding flake (73-75% CaCl ₂).....	..do....	³⁶ 499.3	377.0	3.7	(D)	(D)
28199 15	Flake (77-80% CaCl ₂).....	..do....					
28199 16	Liquid (40-45% CaCl ₂).....	..do....					
28199 41	Calcium hypochlorite (high test) (70% avail. Cl).....	..do....	40.3	38.0	14.9	(D)	(D)
	Phosphate:						
	Dibasic:						
28199 19	Animal feed grades.....	..do....	391.7	371.2	31.5	(D)	(D)
28199 20	Other grades (except fertilizer grades).....	..do....					
28199 18	Monobasic.....	..do....	(X)	(X)	9.9	(X)	(X)
28199 21	Tribasic.....	..do....	(X)	(X)	9.4	(X)	(X)
28199 23	Other inorganic calcium compounds.....	..do....	(X)	(X)			

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments						
				Quantity	Value (million dollars)	Quantity	Value (million dollars)					
				1967								
2819- -- 28199 --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.--Continued Other Inorganic Chemicals, N.E.C.--Continued As reported in Current Industrial Reports M28A--Continued											
28199 24	Carbon, activated: ³⁸ Decolorizing.....	1,000 s. tons.	83.1	84.8	23.2	(D)	(D)					
28199 26	Water purification.....	...do....										
28199 29 28199 31 28199 32	Chromium compounds: Bichromates and chromates: Sodium bichromate and chromate (hydrous).....	...do....	135.3	94.0	23.0	(D)	(D)					
28199 33	Other chromium compounds including potassium bichromate and chromate (hydrous) (excluding chrome colors).....	.....	(X)	(X)	10.7	(X)	(X)				
28199 35	Cobalt compounds.....	.....	(X)	(X)	3.9	(X)	(X)				
28199 36	Copper compounds: Cuprous oxide (100% Cu ₂ O).....	1,000 s. tons.	1.6	1.6	1.7	(D)	(D)					
28199 37	Copper sulfate (100% CuSO ₄ ·5H ₂ O).....	...do....	46.0	46.0	15.1	(D)	(D)					
28199 38 28199 39	Other copper compounds (including copper cyanide, and cupric oxide).....	.....	(X)	(X)	6.7	(X)	(X)				
28199 38	Gold compounds.....	.....	(X)	(X)	(⁵⁰)	(X)	(X)				
28199 39	Hydrogen peroxide.....	1,000 s. tons.	4059.4	41.2	28.8	(D)	(D)					
28199 42	Iron compounds: Ferric chloride (100% FeCl ₃).....	...do....	38.6	34.8	4.5	(D)	(D)					
28199 43	Ferrous sulfate (100% FeSO ₄ ·7H ₂ O).....	...do....	196.6	112.0	1.1	(D)	(D)					
28199 44	Other iron compounds ³⁵.....	.....	(X)	(X)	4.2	(X)	(X)				
28199 45 28199 47	Lead compounds: Nitrate..... Other lead compounds (excluding pigment grade).....	.....	(X)	(X)	8.9	(X)	(X)				
28199 48	Magnesium compounds: Sulfate, including Epsom salts (100% MgSO ₄)..... Other magnesium compounds.....	.....									
28199 50	Manganese compounds: Sulfate (100% MnSO ₄ ·4H ₂ O).....	1,000 s. tons.	37.1	31.2	2.4	(D)	(D)					
28199 52	Other manganese compounds, including potassium and other permanganates and manganese dioxide, battery grade.....	.....	(X)	(X)	9.6	(X)	(X)				
28199 53	Mercury and compounds: Mercury, redistilled (lb.).....	1,000 s. tons.	447.9	404.1	2.3	404.1	2.3					
28199 55	Other mercuric compounds, except mercuric fulminate and medicinal grades.....	.....	(X)	(X)	3.0	(X)	(X)				
28199 90	Molybdenum, platinum, radium, strontium, tantalum, thallium, and tungsten compounds.....	.....	(X)	(X)	59.0	(X)	(X)				
28199 56	Nickel compounds: Sulfate (100% NiSO ₄ ·6H ₂ O).....	1,000 s. tons.	14.8	15.0	7.2	15.0	7.2					
28199 57	Other nickel compounds.....	.....	(X)	(X)	3.9	(X)	(X)				
28199 58	Phosphorus and compounds: Phosphorus elemental: White (yellow) (technical).....	1,000 s. tons.	587.0	536.2	184.1	64.7	20.1					
28199 59	Red (technical).....	...do....										
28199 60	Oxychloride (100% POCl ₃).....	...do....	32.8	21.1	4.3	(D)	(D)					
28199 62	Pentoxide (100% P ₂ O ₅).....	...do....	-	-	-	-	-					
28199 63	Trichloride (chloride) (100% PCl ₃).....	...do....	51.1	16.8	3.4	13.8	2.8					
28199 61	Pentasulfide (100% P ₂ S ₅).....	...do....	48.7	28.1	6.1	(D)	(D)					
28199 64	Other phosphorus compounds.....	.....	(X)	(X)	(⁴²)	(X)	(X)				
28199 65	Rare earth compounds.....	.....	(X)	(X)	13.2	(X)	(X)				
28199 66	Selenium compounds.....	.....	(X)	(X)	1.4	(X)	(X)				
28199 68 28199 69 28199 70	Silica gel: Butadiene catalyst grade..... Desiccant grade..... Aviation gas catalyst grade.....	.....	(X)	(X)	53.8	(X)	(X)				
28199 71	Silver compounds: Cyanic (100% AgCN).....	1,000 av. oz.						2.7	2.6	3.0	2.6	3.0
28199 72	Nitrate (100% AgNO ₃) ⁴³do....						113.6	46.7	36.3	46.7	36.3
28199 73	Other silver compounds.....	.....	(X)	(X)	6.5	(X)	(X)				

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
			1967				
2819- --	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.--Continued						
28199 --	Other Inorganic Chemicals, N.E.C.--Continued						
	As reported in Current Industrial Reports M28A--Continued						
28199 74	Sulfur, recovered elemental ⁴⁴	1,000 l. tons.	1,268.0	1,284.0	41.0	(D)	(D)
	Sulfur compounds:						
28199 75	Dioxide (produced for sale) (100% SO ₂).....	...do....	108.2	82.8	5.8	(D)	(D)
28199 77	Other sulfur compounds (including sulfur chloride).....	.....	(X)	(X)	(⁵¹)	(X)	(X)
	Tin compounds:						
28199 80	Oxide (stannic) (100% SnO ₂).....	1,000 s. tons.	.4	.4	1.5	.4	1.5
28199 81	Other tin compounds (including stannic and stannous chloride).....	.....	(X)	(X)	13.8	(X)	(X)
	Zinc compounds:						
28199 84	Chloride (100% ZnCl ₂).....	1,000 s. tons.	(D)	(D)	(⁵²)	(D)	(D)
28199 87	Sulfate (100% ZnSO ₄ ·7H ₂ O).....	...do....	57.3	46.8	5.7	(D)	(D)
28199 88	Other zinc compounds excluding pigment grades.....	.....	(X)	(X)	⁵² 12.2	(X)	(X)
28199 91	Radioactive isotopes shipped from non-AEC plants producing isotopes ⁴⁶.....	.....	(X)	(X)	8.3	(X)	(X)
28199 92	Radiation sources and other radioactive materials produced from purchased isotopes ⁴⁶.....	.....	(X)	(X)	14.2	(X)	(X)
28199 94	Industrial bleaches including liquid lime bleaches.....	.....	(X)	(X)	3.2	(X)	(X)
28199 95		.....	(X)	(X)		(X)	(X)
28199 98		All other inorganic chemicals, n.e.c. ^{38,42,49,50,51}	(X)	(X)	162.8	(X)	(X)
28190 00	Industrial inorganic chemicals, n.s.k., reported in census of manufactures, for companies with 10 employees or more. (See note.).....	.....	(X)	(X)	30.6	(X)	(X)
28190 02	Industrial inorganic chemicals, n.s.k., reported in census of manufactures, for companies with less than 10 employees. (See note.).....	.....	(X)	(X)	8.3	(X)	(X)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review. (Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

¹The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

²Includes quantities liquefied for use, storage, or shipment.

³Ammonia soda and caustic carbonation processes.

⁴Includes quantities used to manufacture caustic soda, finished sodium bicarbonate, finished light and dense soda ash, calcium carbonate, etc.

⁵Quantity figures reported in terms of soda ash processed to refined bicarbonate.

⁶Excludes quantities converted to finished dense soda ash.

⁷Includes quantities later evaporated to solid caustic and reported as such.

⁸Includes some liquid shipped as interplant transfers to other establishments for further processing to dry forms.

⁹Includes unspecified amounts produced from liquid caustic received from other establishments.

¹⁰Includes potassium carbonate, modified sodas, electrolytic soda ash, sodium carbonate (monohydrate), and sal soda, and excludes products classified as alkaline detergents.

¹¹Excludes value for helium produced in government owned plants.

¹²Excludes information from railroad shops, shipyards, welding shops, and small establishments using portable generators.

¹³Excludes production of liquid and gas carbon dioxide converted to and reported as dry ice and also amounts converted from pure carbon dioxide (liquid or solid) purchased or received from other plants. Also excludes quantities produced and consumed in plants manufacturing soda ash or urea, and quantities produced and transferred to other plants where it is further processed.

¹⁴Source: U.S. Department of Interior, Bureau of Mines.

¹⁵Excludes amounts vented, used as fuel, etc., and amounts produced and consumed in the manufacture of synthetic ammonia and methanol, but includes an unspecified amount produced for sale or interplant transfer to plants consuming this gas in the production of ammonia. Also excludes amounts produced by the ammonia dissociation process (cracking of ammonia). Also excludes amounts produced in petroleum refineries for captive use. However, of the total shown for 1967, 70 to 75 percent was accounted for by petroleum refiners with captive lower purity hydrogen production. Not all such petroleum refineries were canvassed in this survey.

¹⁶Excludes amounts produced and consumed in the manufacture of synthetic ammonia or ammonia derivatives.

¹⁷Data for 1967 includes only high purity gas. Value of shipments data for lower purity gas is combined with code 28134 98 for 1967.

¹⁸Excludes hydrocarbon gases such as propane, butane, and propylene, or halogenated hydrocarbons and cyclopropane, which are reported to the U.S. Tariff Commission. Also excludes sulfur dioxide and chlorine, figures for which are shown in Current Industrial Reports series M28A(72)-14, Inorganic Chemicals.

¹⁹Includes values for lower purity nitrogen and lower purity oxygen for 1967.

²⁰Code 28162 25 included in code 28162 98 for 1972.

²¹Source of data: Current Industrial Reports series M28A, "Inorganic Chemicals."

²²Code 28163 61 included in code 28163 98 for 1972.

²³Code 28163 88 included in code 28163 98 for 1967.

Footnotes continued on next page.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

Footnotes for table 6A--Continued

²⁴Includes value of inorganic chemicals shipped by establishments classified in "manufacturing" and "nonmanufacturing" industries. The value of shipments reported by "nonmanufacturing" establishments classified in the mineral industries and the Tennessee Valley Authority for total industrial inorganic chemicals, n.e.c., code 2819-- amounted to \$175.4 million for 1972 and \$150.3 million for 1967.

²⁵Represents complete coverage of all manufacturers by the inclusion of estimates which account for less than 5 percent of the total.

²⁶Includes anhydrous hydrochloric acid shipments of 217,473 short tons, valued at \$7,943 thousand for 1972 and 185,890 short tons, valued at \$9,189 thousand for 1967. The quantities of anhydrous hydrochloric acid produced amounted to 1,052,235 short tons in 1972 and 628,502 short tons for 1967.

²⁷Codes 28194 51 and 28194 67 combined with code 28194 98.

²⁸Codes 28196 11 and 28196 15 combined with code 28196 71 for 1972.

²⁹In addition, 5,023 short tons in 1972 and 4,732 short tons in 1967 were produced by municipalities.

³⁰Represents quantities produced only for sale or interplant transfer.

³¹Code 28197 39 combined with code 28197 87 for 1972.

³²Excludes quantities consumed in the manufacture of meta-, ortho-, and sesquisilicates. Shipments figures include unspecified amounts shipped to other plants for use in manufacturing meta-, ortho-, or sesquisilicates.

³³Code 28197 43 combined with code 28197 45 for 1972.

³⁴Value for 1972 includes \$19.8 million shipped by "nonmanufacturing" establishments classified in mineral industries.

³⁵Excludes pigment grades.

³⁶Excludes quantities of liquid used to produce solid calcium chloride.

³⁷Code 28199 41 combined with code 28199 23 for 1972.

³⁸Value of activated carbon, deodorizing grade, and solvent recovery and gas absorption grade included in code 28199 98.

³⁹Code 28199 36 combined with code 28199 37 for 1972.

⁴⁰Includes unspecified amounts of hydrogen peroxide produced but not withdrawn from the system.

⁴¹Code 28199 43 combined with code 28199 44 for 1972.

⁴²Code 28199 64 combined with code 28199 98.

⁴³Includes unspecified amounts produced and shipped on contract basis.

⁴⁴Production and shipment totals for the years 1967 and 1972 were collected by the Bureau of Mines.

⁴⁵Code 28199 80 combined with code 28199 81 for 1972.

⁴⁶Based on data published in Current Industrial Reports series MA-38Q(72)-1, "Selected Atomic Energy Products."

⁴⁷Data for 1967 are not available due to Standard Industrial Classification product class revisions for 1972 which transferred the manufacture of phosphoric acid, formerly part of product class 28194, to product code 28741 00, phosphoric acid, in industry 2874, Phosphatic Fertilizers.

⁴⁸Excludes amounts converted to concentrated sodium sulfide.

⁴⁹Code 28199 09 combined with code 28199 98 for 1967.

⁵⁰Code 28199 38 combined with code 28199 98 for 1967.

⁵¹Code 28199 77 combined with code 28199 98 for 1967.

⁵²Code 28199 84 combined with code 28199 88 for 1967.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CHLORINE, COMPRESSED OR LIQUEFIED (28121)			SODIUM CARBONATE (SODA ASH) (28122)		
United States.....	210.2	190.8	United States.....	147.6	140.9
Northeast Region.....	14.6	12.9	Northeast Region.....	32.9	FF
New England Division.....	BB	(NA)	Middle Atlantic Division.....	FF	FF
Maine.....	BB	(NA)	New York.....	FF	FF
Middle Atlantic Division.....	EE	12.9	New Jersey.....	BB	BB
New York.....	8.8	CC			
New Jersey.....	AA	BB	North Central Region.....	75.5	GG
North Central Region.....	23.9	28.2	East North Central Division.....	75.5	GG
East North Central Division.....	FF	FF	Ohio.....	FF	FF
Ohio.....	10.9	15.1	Michigan.....	FF	FF
Michigan.....	CC	CC			
Wisconsin.....	BB	AA	South Region.....	FF	42.8
West North Central Division.....	AA	BB	West South Central Division.....	FF	FF
Kansas.....	AA	AA	Louisiana.....	FF	FF
South Region.....	140.8	122.2	Texas.....	CC	CC
South Atlantic Division.....	39.4	40.3			
Delaware.....	CC	BB	SODIUM HYDROXIDE (CAUSTIC SODA) (28123)		
Virginia.....	AA	CC	United States.....	410.9	254.9
West Virginia.....	EE	18.6	Northeast Region.....	24.1	19.6
North Carolina.....	AA	AA	New England Division.....	BB	(NA)
Georgia.....	10.7	CC	Maine.....	BB	(NA)
East South Central Division.....	25.5	23.2	Middle Atlantic Division.....	FF	19.6
Kentucky.....	BB	(NA)	New York.....	EE	EE
Tennessee.....	CC	CC			
Alabama.....	EE	16.3	North Central Region.....	48.6	46.1
West South Central Division.....	76.0	58.6	East North Central Division.....	FF	FF
Louisiana.....	42.4	27.7	Ohio.....	EE	EE
Texas.....	33.6	29.9	Michigan.....	18.6	21.7
West Region.....	31.0	27.5	Wisconsin.....	BB	AA
Mountain Division.....	CC	CC	West North Central Division.....	CC	CC
Nevada.....	CC	CC	Kansas.....	CC	CC
Pacific Division.....	FF	FF			
Washington.....	EE	13.5			
Oregon.....	BB	BB			
California.....	CC	BB			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SODIUM HYDROXIDE (CAUSTIC SODA) (28123)--Con.			ACETYLENE (28132)--Continued		
South Region.....	295.2	153.9	West Region.....	8.5	6.3
South Atlantic Division.....	57.8	42.8	Mountain Division.....	2.1	1.8
Delaware.....	CC	BB	Pacific Division.....	6.4	4.5
West Virginia.....	32.5	22.8	Oregon.....	AA	(NA)
North Carolina.....	BB	BB	California.....	3.9	2.8
Georgia.....	13.3	CC			
East South Central Division.....	40.0	28.2	CARBON DIOXIDE (28133)		
Kentucky.....	EE	CC	United States.....	45.7	48.0
Tennessee.....	EE	CC			
Alabama.....	16.6	16.6	Northeast Region.....	5.2	11.2
West South Central Division.....	197.4	82.9	Middle Atlantic Division.....	5.2	EE
Louisiana.....	100.8	FF	New Jersey.....	AA	5.4
Texas.....	96.6	42.6	Pennsylvania.....	BB	BB
West Region.....	43.0	35.2	North Central Region.....	16.1	17.3
Mountain Division.....	CC	BB	East North Central Division.....	9.8	EE
Nevada.....	CC	BB	Ohio.....	CC	5.3
Pacific Division.....	FF	FF	Illinois.....	BB	BB
Washington.....	22.4	17.5	West North Central Division.....	6.3	CC
Oregon.....	BB	BB	Minnesota.....	AA	(NA)
California.....	CC	CC	Iowa.....	2.2	2.1
			Kansas.....	BB	BB
OTHER ALKALIES (28124)			South Region.....	16.3	10.3
United States.....	33.7	(NA)	South Atlantic Division.....	9.8	5.6
Northeast Region.....	11.4	(NA)	Delaware.....	BB	(NA)
Middle Atlantic Division.....	11.4	(NA)	Virginia.....	BB	4.2
New York.....	CC	(NA)	West Virginia.....	AA	(NA)
New Jersey.....	AA	(NA)	East South Central Division.....	3.8	BB
North Central Region.....	CC	(NA)	Tennessee.....	BB	BB
East North Central Division.....	CC	(NA)	West South Central Division.....	2.7	BB
Illinois.....	CC	(NA)	Louisiana.....	AA	(NA)
South Region.....	11.4	(NA)	Texas.....	AA	AA
South Atlantic Division.....	6.7	(NA)	West Region.....	8.0	9.2
Delaware.....	BB	(NA)	Mountain Division.....	2.3	1.1
North Carolina.....	BB	(NA)	New Mexico.....	AA	(NA)
East South Central Division.....	CC	(NA)	Pacific Division.....	5.7	8.1
Kentucky.....	BB	(NA)	Washington.....	AA	AA
Alabama.....	BB	(NA)	California.....	3.3	5.8
West South Central Division.....	AA	(NA)			
Texas.....	AA	(NA)	ELEMENTAL, COMPRESSED AND LIQUEFIED GASES, N.E.C., (28134)		
West Region.....	BB	(NA)	United States.....	487.2	390.8
Mountain Division.....	BB	(NA)	Northeast Region.....	101.7	72.9
Wyoming.....	BB	(NA)	New England Division.....	7.6	8.4
ACETYLENE (28132)			Massachusetts.....	BB	CC
United States.....	96.0	83.2	Connecticut.....	BB	(NA)
Northeast Region.....	7.6	18.8	Middle Atlantic Division.....	94.2	64.4
New England Division.....	AA	1.4	New York.....	12.3	12.3
Massachusetts.....	AA	AA	New Jersey.....	29.3	13.1
Middle Atlantic Division.....	6.4	17.3	Pennsylvania.....	52.6	39.1
New York.....	BB	CC	North Central Region.....	161.6	134.6
New Jersey.....	1.4	BB	East North Central Division.....	124.0	93.1
Pennsylvania.....	BB	5.1	Ohio.....	42.9	36.0
North Central Region.....	16.0	13.2	Indiana.....	FF	FF
East North Central Division.....	11.7	10.0	Illinois.....	20.9	25.9
Ohio.....	4.8	2.4	Michigan.....	EE	EE
Indiana.....	AA	1.5	West North Central Division.....	43.7	41.3
Illinois.....	2.2	2.7	Minnesota.....	AA	AA
Michigan.....	2.2	2.1	Missouri.....	4.1	AA
West North Central Division.....	4.3	3.2	Kansas.....	37.3	37.3
Iowa.....	AA	(NA)	South Region.....	160.1	119.7
Kansas.....	1.1	(NA)	South Atlantic Division.....	58.3	45.1
South Region.....	63.9	44.9	Delaware.....	CC	10.4
South Atlantic Division.....	CC	BB	Maryland.....	CC	EE
Maryland.....	AA	(NA)	Virginia.....	3.6	(NA)
Georgia.....	1.3	(NA)	West Virginia.....	24.2	CC
East South Central Division.....	FF	FF	Georgia.....	BB	AA
Kentucky.....	FF	FF	Florida.....	7.0	10.9
Tennessee.....	1.2	1.0	East South Central Division.....	30.0	22.0
Alabama.....	1.1	(NA)	Kentucky.....	BB	CC
West South Central Division.....	33.9	CC	Tennessee.....	CC	BB
Louisiana.....	CC	2.8	Alabama.....	17.9	11.3
Texas.....	26.7	BB	West South Central Division.....	71.9	52.6
			Arkansas.....	AA	(NA)
			Louisiana.....	15.4	17.3
			Texas.....	54.9	34.1

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ELEMENTAL, COMPRESSED AND LIQUEFIED GASES, N.E.C., (28134)--Continued			CHROME COLORS AND OTHER INORGANIC PIGMENTS (28163)--Continued		
West Region.....	63.7	63.7	South Region.....	51.2	35.8
Mountain Division.....	13.6	10.0	South Atlantic Division.....	38.3	29.6
Colorado.....	BB	BB	Maryland.....	EE	CC
Arizona.....	4.5	BB	Virginia.....	BB	BB
Utah.....	BB	(NA)	West Virginia.....	EE	13.0
Pacific Division.....	50.1	53.7	South Carolina.....	AA	(NA)
Washington.....	AA	AA	Georgia.....	CC	BB
California.....	46.0	47.8	East South Central Division.....	CC	BB
Hawaii.....	AA	(NA)	Kentucky.....	CC	BB
			Tennessee.....	AA	(NA)
			West South Central Division.....	CC	AA
			Texas.....	CC	AA
TITANIUM PIGMENTS (28161)					
United States.....	355.6	(NA)	West Region.....	19.5	9.8
Northeast Region.....	GG	(NA)	Pacific Division.....	19.5	CC
Middle Atlantic Division.....	GG	(NA)	California.....	19.5	CC
New Jersey.....	GG	(NA)			
North Central Region.....	55.8	(NA)	SULFURIC ACID (28193)		
East North Central Division.....	FF	(NA)	United States.....	245.4	250.6
Ohio.....	FF	(NA)	Northeast Region.....	53.5	40.1
West North Central Division.....	FF	(NA)	New England Division.....	2.9	BB
Missouri.....	FF	(NA)	Massachusetts.....	AA	BB
South Region.....	201.1	(NA)	Middle Atlantic Division.....	50.5	FF
South Atlantic Division.....	GG	(NA)	New York.....	BB	BB
Delaware.....	FF	(NA)	New Jersey.....	EE	EE
Maryland.....	FF	(NA)	Pennsylvania.....	28.1	15.7
Georgia.....	FF	(NA)			
East South Central Division.....	GG	(NA)	North Central Region.....	43.5	53.5
Tennessee.....	GG	(NA)	East North Central Division.....	35.6	46.0
Mississippi.....	FF	(NA)	Ohio.....	11.7	13.2
West Region.....	EE	(NA)	Indiana.....	11.2	EE
Pacific Division.....	EE	(NA)	Illinois.....	CC	12.9
California.....	EE	(NA)	Michigan.....	BB	CC
			West North Central Division.....	7.9	7.5
OTHER WHITE OPAQUE PIGMENTS (28162)			Minnesota.....	AA	AA
United States.....	101.0	65.4	Iowa.....	AA	AA
Northeast Region.....	59.6	30.0	Missouri.....	BB	(NA)
Middle Atlantic Division.....	GG	FF	Kansas.....	AA	BB
New Jersey.....	BB	BB			
Pennsylvania.....	GG	FF	South Region.....	114.8	132.1
North Central Region.....	31.1	33.0	South Atlantic Division.....	FF	52.1
East North Central Division.....	FF	FF	Delaware.....	BB	CC
Ohio.....	BB	11.0	Maryland.....	CC	11.1
Illinois.....	16.6	11.5	Virginia.....	CC	9.0
West North Central Division.....	CC	CC	West Virginia.....	AA	BB
Kansas.....	CC	CC	North Carolina.....	2.3	1.3
South Region.....	BB	AA	Georgia.....	5.2	3.7
East South Central Division.....	AA	(NA)	Florida.....	5.8	EE
Tennessee.....	AA	(NA)	East South Central Division.....	EE	27.9
West Region.....	AA	(NA)	Kentucky.....	BB	BB
Mountain Division.....	AA	(NA)	Tennessee.....	EE	FF
Montana.....	AA	(NA)	West South Central Division.....	54.5	52.0
			Arkansas.....	BB	BB
CHROME COLORS AND OTHER INORGANIC PIGMENTS (28163)			Louisiana.....	23.4	10.3
United States.....	283.2	189.3	Oklahoma.....	BB	BB
Northeast Region.....	140.1	92.9	Texas.....	24.8	36.4
New England Division.....	6.9	3.6			
Vermont.....	BB	BB	West Region.....	33.6	25.1
Rhode Island.....	AA	AA	Mountain Division.....	12.6	7.0
Middle Atlantic Division.....	133.2	89.3	Idaho.....	AA	AA
New York.....	61.1	40.6	New Mexico.....	AA	AA
New Jersey.....	38.3	24.4	Arizona.....	5.4	1.4
Pennsylvania.....	33.7	24.2	Utah.....	BB	AA
North Central Region.....	72.4	50.5	Pacific Division.....	21.0	18.1
East North Central Division.....	57.2	33.0	Washington.....	2.9	BB
Ohio.....	18.2	EE	California.....	18.1	EE
Indiana.....	EE	CC			
Illinois.....	23.1	11.4	INORGANIC ACIDS, EXCEPT NITRIC, SULFURIC, AND PHOSPHORIC (28194)		
Wisconsin.....	BB	(NA)	United States.....	160.4	(NA)
West North Central Division.....	15.3	17.5	Northeast Region.....	16.1	(NA)
Missouri.....	15.3	17.5	Middle Atlantic Division.....	EE	(NA)
			New York.....	BB	(NA)
			New Jersey.....	EE	(NA)
			Pennsylvania.....	CC	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
INORGANIC ACIDS, EXCEPT NITRIC, SULFURIC, AND PHOSPHORIC (28194)--Continued			OTHER ALUMINUM COMPOUNDS (28196)--Continued		
North Central Region.....	27.5	(NA)	West Region.....	CC	6.5
East North Central Division.....	FF	(NA)	Pacific Division.....	CC	CC
Ohio.....	7.5	(NA)	Washington.....	BB	BB
Indiana.....	CC	(NA)	California.....	3.5	3.2
Illinois.....	9.2	(NA)	POTASSIUM AND SODIUM COMPOUNDS (EXCEPT BLEACHES, ALKALIES, AND ALUMS) (28197)		
Michigan.....	(D)	(NA)			
West North Central Division.....	BB	(NA)	United States.....	503.1	455.7
Kansas.....	AA	(NA)			
South Region.....	98.4	(NA)	Northeast Region.....	146.6	128.0
South Atlantic Division.....	40.8	(NA)	New England Division.....	7.5	9.0
Delaware.....	CC	(NA)	Massachusetts.....	CC	CC
Maryland.....	EE	(NA)	Middle Atlantic Division.....	139.1	119.1
West Virginia.....	CC	(NA)	New York.....	44.4	35.5
North Carolina.....	BB	(NA)	New Jersey.....	67.9	60.8
Georgia.....	AA	(NA)	Pennsylvania.....	26.8	22.8
Florida.....	6.8	(NA)			
East South Central Division.....	11.0	(NA)	North Central Region.....	161.4	161.1
Kentucky.....	CC	(NA)	East North Central Division.....	124.9	134.8
Tennessee.....	BB	(NA)	Ohio.....	21.7	23.0
Alabama.....	BB	(NA)	Indiana.....	CC	15.1
West South Central Division.....	46.6	(NA)	Illinois.....	57.7	61.4
Arkansas.....	BB	(NA)	Michigan.....	FF	34.9
Louisiana.....	EE	(NA)	West North Central Division.....	36.5	26.3
Texas.....	27.4	(NA)	Iowa.....	CC	(NA)
West Region.....	18.5	(NA)	Missouri.....	EE	EE
Mountain Division.....	3.8	(NA)	Kansas.....	EE	EE
New Mexico.....	AA	(NA)			
Nevada.....	AA	(NA)	South Region.....	136.0	117.8
Pacific Division.....	14.6	(NA)	South Atlantic Division.....	53.0	42.7
California.....	EE	(NA)	Delaware.....	EE	7.8
ALUMINUM OXIDE (28195)			Maryland.....	BB	2.2
United States.....	388.6	(NA)	Virginia.....	EE	CC
Northeast Region.....	BB	(NA)	West Virginia.....	BB	BB
Middle Atlantic Division.....	BB	(NA)	North Carolina.....	3.5	(NA)
New Jersey.....	BB	(NA)	Georgia.....	16.2	14.0
South Region.....	384.7	(NA)	Florida.....	4.5	5.0
East South Central Division.....	FF	(NA)	East South Central Division.....	43.0	39.3
Alabama.....	FF	(NA)	Tennessee.....	FF	20.4
West South Central Division.....	GG	(NA)	Alabama.....	CC	CC
Arkansas.....	GG	(NA)	Mississippi.....	CC	EE
Louisiana.....	GG	(NA)	West South Central Division.....	40.0	35.8
Texas.....	GG	(NA)	Louisiana.....	EE	11.8
OTHER ALUMINUM COMPOUNDS (28196)			Texas.....	19.7	24.0
United States.....	175.5	127.2	West Region.....	59.1	48.8
Northeast Region.....	EE	17.0	Mountain Division.....	13.5	CC
New England Division.....	AA	BB	Wyoming.....	CC	CC
Maine.....	AA	(NA)	New Mexico.....	CC	(NA)
Middle Atlantic Division.....	EE	EE	Nevada.....	BB	BB
New York.....	4.7	BB	Pacific Division.....	45.7	FF
New Jersey.....	BB	6.5	Washington.....	BB	(NA)
Pennsylvania.....	AA	CC	Oregon.....	BB	BB
North Central Region.....	20.2	16.7	California.....	40.1	FF
East North Central Division.....	EE	EE	CHEMICAL CATALYTIC PREPARATIONS (28198)		
Ohio.....	CC	BB	United States.....	172.8	123.1
Illinois.....	7.8	6.6	Northeast Region.....	40.6	24.1
Michigan.....	BB	AA	New England Division.....	5.5	AA
Wisconsin.....	BB	BB	Massachusetts.....	CC	AA
West North Central Division.....	AA	AA	Middle Atlantic Division.....	35.1	FF
Minnesota.....	AA	(NA)	New Jersey.....	28.2	18.9
South Region.....	136.2	86.9	Pennsylvania.....	(D)	3.6
South Atlantic Division.....	17.2	16.3	North Central Region.....	51.5	31.4
Delaware.....	BB	BB	East North Central Division.....	51.5	31.4
Maryland.....	AA	6.2	Ohio.....	29.9	12.0
Virginia.....	AA	AA	Indiana.....	CC	BB
Georgia.....	4.6	2.7	Illinois.....	CC	7.5
Florida.....	BB	AA	Michigan.....	CC	CC
East South Central Division.....	8.4	6.8	South Region.....	71.7	65.5
Alabama.....	6.9	BB	South Atlantic Division.....	25.8	17.9
West South Central Division.....	110.6	63.8	Maryland.....	CC	CC
Arkansas.....	FF	FF	West Virginia.....	EE	CC
Louisiana.....	FF	16.1	Georgia.....	CC	(NA)
Texas.....	42.8	FF	East South Central Division.....	20.2	27.1
			Kentucky.....	EE	FF
			Tennessee.....	BB	CC
			Alabama.....	AA	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CHEMICAL CATALYTIC PREPARATIONS (28198)--Con.			OTHER INORGANIC CHEMICALS, N.E.C., (28199)--Continued		
South Region--Continued			South Region.....	460.9	372.0
West South Central Division.....	25.8	20.5	South Atlantic Division.....	165.1	118.1
Louisiana.....	EE	CC	Delaware.....	5.2	CC
Texas.....	EE	EE	Maryland.....	42.9	30.0
West Region.....	9.0	2.2	Virginia.....	FF	20.8
Pacific Division.....	9.0	BB	West Virginia.....	FF	17.1
California.....	8.3	BB	North Carolina.....	GG	CC
OTHER INORGANIC CHEMICALS, N.E.C., (28199)			South Carolina.....	FF	(NA)
United States.....	¹ 1,334.6	1,035.5	Georgia.....	8.4	BB
Northeast Region.....	370.6	266.7	Florida.....	16.0	31.8
New England Division.....	48.2	12.1	East South Central Division.....	194.2	188.9
Massachusetts.....	FF	EE	Kentucky.....	40.9	45.0
Connecticut.....	FF	(NA)	Tennessee.....	112.7	126.7
Middle Atlantic Division.....	322.4	254.6	Alabama.....	FF	EE
New York.....	56.8	56.8	Mississippi.....	BB	AA
New Jersey.....	121.0	100.9	West South Central Division.....	101.7	65.0
Pennsylvania.....	144.6	97.0	Arkansas.....	17.3	8.1
North Central Region.....	307.6	268.5	Louisiana.....	33.7	25.2
East North Central Division.....	229.6	204.7	Oklahoma.....	18.5	4.2
Ohio.....	104.8	81.4	Texas.....	32.2	27.5
Indiana.....	CC	9.5	West Region.....	175.7	128.3
Illinois.....	56.2	63.1	Mountain Division.....	126.3	89.2
Michigan.....	59.2	49.2	Montana.....	EE	EE
Wisconsin.....	AA	1.5	Idaho.....	GG	GG
West North Central Division.....	78.0	63.8	Colorado.....	10.3	8.4
Minnesota.....	AA	AA	Nevada.....	CC	BB
Iowa.....	18.4	11.0	Pacific Division.....	49.4	39.1
Missouri.....	FF	45.9	Washington.....	CC	CC
Nebraska.....	BB	(NA)	Oregon.....	BB	BB
Kansas.....	CC	CC	California.....	36.6	28.8

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹For 1972, a geographic breakout is not available for the \$19.8 million shipped by "nonmanufacturing" establishments classified in mineral industries. Therefore, the detailed figures shown will not add to the U.S. total.

TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2812-	Alkalies and chlorine, value.....mil. dol..	805.7	701.3	665.9	609.6	605.9	623.1	526.5	425.4
28121	Chlorine, compressed or liquefied.....do....	210.2	174.0	188.2	190.7	198.3	190.8	164.0	117.4
28122	Sodium carbonate (soda ash).....do.....	147.6	134.0	136.5	142.4	135.9	140.9	123.6	113.3
28123	Sodium hydroxide (caustic soda).....do.....	410.9	367.4	313.7	250.0	244.9	254.9	209.7	177.3
28124	Other alkalies.....do.....	33.7	25.9	27.5	25.1	26.6	35.2	27.6	17.5
28120	Alkalies and chlorine, n.s.k.....do.....	3.3	-	-	1.4	.2	1.3	1.5	-
2813-	Industrial gases:								
	Value.....do.....	659.1	667.3	664.2	649.2	641.0	543.4	389.6	262.6
28132	Acetylene:								
	Quantity.....mil. cu. ft..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	8.9	7.2
	Value.....mil. dol..	96.0	98.8	85.0	85.8	81.3	83.2	93.5	89.4
28133	Carbon dioxide:								
	Quantity.....s. tons..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	984.1	740.7
	Value.....mil. dol..	45.7	33.5	40.2	53.3	51.6	48.0	49.9	43.0
28134	Elemental compressed, liquefied gases, n.e.c., value..do....	487.2	503.2	509.9	497.6	496.2	390.8	244.6	130.2
28130	Industrial gases, n.s.k., value.....do.....	30.2	31.8	(29.1)	12.5	11.9	21.4	1.7	-
2816-	Inorganic pigments, value.....do.....	756.2	688.5	683.1	668.1	622.2	560.8	480.4	412.0
28161	Titanium pigments.....do.....	355.6	319.0	332.5	337.6	317.4	298.4	277.3	231.9
28162	Other white opaque pigments.....do.....	101.0	98.1	94.1	85.8	75.0	65.4	50.4	54.4
28163	Chrome colors and other inorganic pigments.....do....	283.2	248.8	235.6	236.6	221.7	189.3	151.8	125.1
28160	Inorganic pigments, n.s.k.....do.....	16.4	22.6	(20.9)	8.1	8.1	7.6	.9	.6
2819-	Industrial inorganic chemicals, n.e.c., value.....do....	3,002.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
28193	Sulfuric acid.....do.....	245.4	214.1	235.1	295.8	288.7	250.6	193.9	169.9
28194	Inorganic acids, except nitric, sulfuric, and phosphoric.....do....	160.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
28195	Aluminum oxide.....do.....	388.6	425.0	437.9	452.9	397.2	402.4	318.5	214.6
28196	Other aluminum compounds.....do.....	175.5	168.5	148.7	152.2	138.3	127.2	103.8	70.0
28197	Potassium, sodium compounds, except bleaches, alkalies, and alums.....do.....	503.1	525.4	543.3	536.6	496.4	455.7	513.3	426.7
28198	Chemical catalytic preparations.....do.....	172.8	(126.5)	145.2	149.5	125.3	123.1	75.2	56.2
28199	Other inorganic chemicals, n.e.c., .....do.....	1,334.6	1,153.8	1,305.4	1,248.8	1,096.9	1,035.5	825.8	607.9
28190	Industrial inorganic chemicals, n.e.c., n.s.k. ².....do....	22.5	66.3	(92.4)	53.0	(65.8)	38.9	11.1	

- Represents zero. (NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²The individual product codes included in this class of product for 1972 differ significantly from the prior years. Products shifting into or out of this class of product represent more than 15 percent of the total shipments value at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost (million dollars)	
	INDUSTRY 2812.--ALKALIES AND CHLORINE						
	Materials, containers, and supplies, total.....			(X)	(X)	201.1	(X)
	Inorganic chemicals:						
	Acids, except spent acids:						
281944	Hydrochloric acid.....	100% HCl...	1,000 s. tons.	158.8	110.5	2.1	48.3
281946	Hydrofluoric acid.....	100% HF.....	do.....	-	-	-	-
287311	Nitric acid.....	100% HNO ₃ ...	do.....	(D)	(D)	(D)	-
287410	Phosphoric acid.....	100% P ₂ O ₅ ...	do.....	-	-	-	-
281931	Sulfuric acid.....	100% H ₂ SO ₄ ...	do.....	75.9	75.9	1.9	-
287312	Ammonia, synthetic, anhydrous.....	100% NH ₃ ...	do.....	28.2	(D)	(D)	(D)
281211	Chlorine.....	100% Cl.....	do.....	869.6	(D)	(D)	(D)
281996	Phosphorous, elemental.....	Technical.....	do.....	(D)	(D)	(D)	-
281228	Sodium carbonate (soda ash).....	58% Na ₂ O...	do.....	213.9	29.5	1.0	183.4
281238	Sodium hydroxide (caustic soda).....	100% NaOH...	do.....	270.9	7.4	0.4	263.5
	Organic chemicals:						
286952	Alcohol, ethyl (pure and denatured).....			-	-	-	-
286920	Other alcohols, including amyl, butyl, methyl, and propyl.....		Mill. gal...	.6	.6	.5	-
286513	Phenol.....	100%.....	Mill. lb....	(D)	(D)	(D)	-

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost (million dollars)	
1972							
INDUSTRY 2812.--ALKALIES AND CHLORINE--Continued							
Materials, containers, and supplies--Continued							
Organic Chemicals--Continued							
286555	Naphthalene, grades of 77.5°C. or higher.....	.....	Mil. lb...	(D)	(D)	(D)	-
286512	Nitrobenzene.....	100%.....	..do....	(D)	(D)	(D)	-
286514	Phthalic anhydride.....	100%.....	..do....	-	-	-	-
286553	Tar, crude.....	.....	1,000 s. tons.	-	-	-	-
286511	Aniline.....	100%.....	Mil. lb...	(D)	(D)	(D)	-
286552	Benzol (benzene).....	100% C ₆ H ₆..	..do....	(D)	(D)	(D)	-
286923	Formaldehyde.....	37% HCHO..	..do....	-	-	-	-
Crude materials:							
105101	Bauxite.....	.....	1,000 s. tons.	-	-	-	-
147501	Phosphate rock.....	.....	1,000 l. tons.	-	-	-	-
147901	Pyrites.....	.....	..do....	-	-	-	-
147701	Sulfur.....	.....	..do....	(D)	(D)	(D)	-
281932	Sulfuric acid sludge (decomposition acid).....	.....	1,000 s. tons.	-	-	-	-
333348	Zinc and zinc-base alloy refinery shapes.....	.....	..do....	-	-	-	-
Used as raw material:							
331210	Coke, including breeze.....	.....	..do....	(D)	(D)	(D)	-
131152	Natural gas.....	.....	Mil.cu.ft.	7,967.4	7,967.4	3.2	-
355911	Parts and attachments for chemical industries machinery and equipment.....	.....	.....	(X)	(X)	14.3	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	.....	(X)	(X)	167.2	(X)
970000	Materials, containers, and supplies, n.s.k. ¹.....	.....	.....	(X)	(X)	.8	(X)
1967							
Materials, containers, and supplies, total.....							
Inorganic chemicals:							
Acids, except spent acids:							
281944	Hydrochloric acid.....	100% HCl..	1,000 s. tons.	99.3	(NA)	(NA)	(NA)
281946	Hydrofluoric acid.....	100% HF..	..do....	(NA)	(NA)	(NA)	(NA)
287311	Nitric acid.....	100% HNO ₃..	..do....	(NA)	(NA)	(NA)	(NA)
287410	Phosphoric acid.....	100% P ₂ O ₅..	..do....	(NA)	(NA)	(NA)	(NA)
281931	Sulfuric acid.....	100% H ₂ SO ₄	..do....	(NA)	(NA)	(NA)	-
287312	Ammonia, synthetic, anhydrous.....	100% NH ₃..	..do....	24.7	(D)	(D)	(D)
281211	Chlorine.....	100% Cl..	..do....	493.8	(D)	(D)	(D)
281996	Phosphorous, elemental.....	Technical.	..do....	(NA)	(NA)	(NA)	(NA)
281228	Sodium carbonate (soda ash).....	58% Na ₂ O..	..do....	364.3	(NA)	(NA)	(NA)
281238	Sodium hydroxide (caustic soda).....	100% NaOH.	..do....	349.7	(D)	(D)	(D)
Organic chemicals:							
286952	Alcohol, ethyl (pure and denatured).....	.....	.....	(NA)	(NA)	(NA)	(NA)
286920	Other alcohols, including amyl, butyl, methyl, and propyl.....	.....	Mil. gal..	(NA)	(NA)	(NA)	(NA)
286513	Phenol.....	100%.....	Mil. lb...	(NA)	(NA)	(NA)	(NA)
286555	Naphthalene, grades of 77.5°C. or higher.....	.....	..do....	(NA)	(NA)	(NA)	(NA)
286512	Nitrobenzene.....	100%.....	..do....	(NA)	(NA)	(NA)	(NA)
286514	Phthalic anhydride.....	100%.....	..do....	(NA)	(NA)	(NA)	(NA)
286553	Tar, crude.....	.....	1,000 s. tons.	(NA)	(NA)	(NA)	(NA)
286511	Aniline.....	100%.....	Mil. lb...	(NA)	(NA)	(NA)	(NA)
286552	Benzol (benzene).....	100% C ₆ H ₆..	..do....	52.5	52.5	2.3	-
286923	Formaldehyde.....	37% HCHO..	..do....	(NA)	(NA)	(NA)	(NA)
Crude materials:							
105101	Bauxite.....	.....	1,000 s. tons.	(NA)	(NA)	(NA)	(NA)
147501	Phosphate rock.....	.....	1,000 l. tons.	(NA)	(NA)	(NA)	(NA)
147901	Pyrites.....	.....	..do....	(NA)	(NA)	(NA)	(NA)
147701	Sulfur.....	.....	..do....	(NA)	(NA)	(NA)	(NA)
281932	Sulfuric acid sludge (decomposition acid).....	.....	1,000 s. tons.	(NA)	(NA)	(NA)	(NA)
333348	Zinc and zinc-base alloy refinery shapes.....	.....	..do....	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost	
						(million dollars)	
1967							
	INDUSTRY 2812.--ALKALIES AND CHLORINE--Continued						
	Materials, containers, and supplies--Continued						
	Used as raw material:						
331210	Coke, including breeze.....		1,000 s. tons	318.0	318.0	6.3	-
131152	Natural gas		Mil.cu.ft..	588.8	588.8	1.4	-
355911	Parts and attachments for chemical industries machinery and equipment.....			(NA)	(NA)	(NA)	(NA)
970029	All other materials and components, parts, containers, and supplies consumed.....			(X)	(X)	² 167.2	(X)
970000	Materials, containers and supplies, n.s.k. ¹			(X)	(X)	7.9	(X)
1972							
	INDUSTRY 2819.--INDUSTRIAL INORGANIC CHEMICALS, N.E.C.						
	Materials, containers, and supplies, total.....			(X)	(X)	1,312.2	(X)
	Inorganic chemicals:						
	Acids, except spent acids:						
281944	Hydrochloric acid.	100% HCl	1,000 s. tons.	(D)	122.2	4.0	(D)
281946	Hydrofluoric acid.....	100% HF	do.....	(D)	13.3	4.8	(D)
287311	Nitric acid.....	100% HNO ₃	do.....	276.9	53.6	3.1	223.3
287410	Phosphoric acid.....	100% P ₂ O ₅	do.....	777.6	(D)	(D)	(D)
281931	Sulfuric acid.....	100% H ₂ SO ₄	do.....	1,978.1	1,169.2	22.2	808.9
287312	Ammonia, synthetic, anhydrous.....	100% NH ₃	do.....	195.3	(D)	(D)	(D)
281211	Chlorine.....	100% Cl	do.....	266.7	157.3	8.3	109.4
281996	Phosphorous, elemental.....	Technical	do.....	(D)	451.0	132.1	(D)
281228	Sodium carbonate (soda ash).....	58% Na ₂ O	do.....	(D)	1,541.6	56.8	(D)
281238	Sodium hydroxide (caustic soda).....	100% NaOH	do.....	711.9	681.7	35.9	30.2
	Organic chemicals:						
286952	Alcohol, ethyl (pure and denatured).....			(X)	(X)	1.4	(X)
286920	Other alcohols, including amyl, cutyl, methyl, and propyl.....		Mil. gal...	(D)	23.1	5.8	(D)
286513	Phenol.....	100%	Million lb.	(D)	(D)	(D)	(D)
286555	Naphthalene, grades of 77.5°C. or higher.....		do.....	(D)	(D)	(D)	-
286512	Nitrobenzene.....	100%	do.....	(D)	(D)	(D)	-
286514	Phthalic anhydride.....	100%	do.....	(D)	(D)	(D)	(D)
286553	Tar, crude.....		1,000 s. tons.	-	-	-	-
286511	Aniline.....	100%	Mil. lb....	(X)	5.5	1.1	(X)
286552	Benzol (benzene).....	100% C ₆ H ₆	do.....	11.5	11.5	0.4	-
286923	Formaldehyde.....	37% HCHO	do.....	35.7	(D)	(D)	(D)
	Crude materials:						
105101	Bauxite.....		1,000 s. tons.	(X)	12,689.5	217.8	(X)
147501	Phosphate rock.....		1,000 l. tons.	(X)	2,951.0	17.1	(X)
147901	Pyrites.....		do.....	(X)	(D)	(D)	(X)
147701	Sulfur ³		do.....	(X)	1,691.9	43.6	(X)
281932	Sulfuric acid sludge (decompositon acid).....		1,000 s. tons.	(X)	882.8	8.4	(X)
333348	Zinc and zinc-base alloy refinery shapes.....		do.....	(X)	(D)	(D)	(X)
	Used as raw material:						
331210	Coke, including breeze.....		do.....	(X)	445.4	14.4	(X)
131152	Natural gas.....		Mil.cu.ft..	(X)	(S)	6.2	(X)
355911	Parts and attachments for chemical industries machinery and equipment.....			(X)	(X)	25.2	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	(X)	641.6	(X)
976000	Materials, containers and supplies, n.s.k. ¹			(X)	(X)	36.1	(X)

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹This item represents the total cost of materials for establishments that did not report detailed materials data.

²Includes values for lines above for which data were not shown.

³Excludes quantities of sulfur derived from other sources such as copper pyrites, hydrogen sulfide, and smelter gas.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 2812.--ALKALIES AND CHLORINE					
	Purchased fuels and electric energy.....		(X)	111.4	(X)	96.0
	Purchased fuels, total.....		(X)	57.3	(X)	45.2
121005	Coal.....	1,000 s. tons....	3,049.4	29.7	2,991.8	18.5
331212	Coke.....	..do.....	106.8	3.4	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	697.3	2.3	628.1	1.8
291141	Distillate.....	..do.....	291.5	1.1	191.7	.8
291151	Residual.....	..do.....	405.7	1.2	436.4	1.0
131300	Natural gas.....	Billion ft ³	45.2	12.3	44.3	12.0
960011	Other fuels.....		(X)	9.4	(X)	5.3
975000	Fuels, n.s.k.....		(X)	.2	(X)	7.6
960012	Purchased electric energy.....	Million kWh.....	9,142.6	54.1	9,298.0	50.8
	Quantity of electric energy generated less quantity sold....	..do.....	(D)	(NA)	3,021.0	(NA)
	Total energy used for heat and power.....	Bil. kWh equiv....	49.8	-	58.3	-
	INDUSTRY 2813.--INDUSTRIAL GASES					
	Purchased fuels and electric energy.....		(X)	81.7	(X)	63.6
	Purchased fuels, total.....		(X)	12.9	(X)	12.1
121005	Coal.....	1,000 s. tons....	89.2	.8	(D)	(D)
331212	Coke.....	..do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	105.9	.4	243.4	1.0
291141	Distillate.....	..do.....	97.2	.4	62.9	.3
291151	Residual.....	..do.....	8.6	(Z)	180.5	.7
131300	Natural gas.....	Billion ft ³	36.0	10.2	18.9	6.8
960011	Other fuels.....		(X)	.6	(X)	1.4
975000	Fuels, n.s.k.....		(X)	.7	(X)	2.9
960012	Purchased electric energy.....	Million kWh.....	8,548.6	68.8	6,776.4	51.5
	Quantity of electric energy generated less quantity sold....	..do.....	131.0	(NA)	274.0	(NA)
	Total energy used for heat and power.....	Bil. kWh equiv....	21.1	-	17.8	-
	INDUSTRY 2816.--INORGANIC PIGMENTS					
	Purchased fuels and electric energy.....		(X)	36.4	(X)	21.7
	Purchased fuels, total.....		(X)	24.9	(X)	15.4
121005	Coal.....	1,000 s. tons....	334.3	3.2	386.0	3.6
331212	Coke.....	..do.....	(S)	.6	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	2,008.0	8.7	1,499.3	3.6
291141	Distillate.....	..do.....	278.1	1.3	215.3	.9
291151	Residual.....	..do.....	1,730.0	7.4	1,284.0	2.7
131300	Natural gas.....	Billion ft ³	20.8	10.5	13.7	5.6
960011	Other fuels.....		(X)	.1	(X)	.3
975000	Fuels, n.s.k.....		(X)	1.9	(X)	2.3
960012	Purchased electric energy.....	Million kWh.....	1,180.1	11.5	673.4	6.3
	Quantity of electric energy generated less quantity sold....	..do.....	75.0	-	192.0	-
	Total energy used for heat and power.....	Bil. kWh equiv....	15.7	-	13.0	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

Plastics Materials, Synthetic Rubber, and Manmade Fibers

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EXPLANATORY TEXT

PLASTICS MATERIALS, SYNTHETIC RUBBER, AND MANMADE FIBERS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 2821—Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers***
- 2822—Synthetic Rubber (Vulcanizable Elastomers)***
- 2823—Cellulosic Manmade Fibers**
- 2824—Synthetic Organic Fibers, Except Cellulosic***

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2821.—PLASTICS MATERIALS AND RESINS (Short Title)

This industry comprises establishments primarily engaged in manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers. Important products of this industry include cellulose plastic materials; phenolic and other tar acid resins; urea and melamine resins; vinyl resins; styrene resins; alkyd resins; acrylic resins; polyethylene resins; polypropylene resins; rosin modified resins; coumarone-indene and petroleum polymer resins; and miscellaneous resins including polyamide resins, silicones, polyisobutylenes, polyesters, polycarbonate resins, acetal resins, and fluorohydrocarbon resins; vulcanized fiber; and casein plastics. For a detailed list of products of

industry 2821, refer to table 6A, product codes 28213 -- to 28216 21.

Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in industry 3079, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are also classified in industry 3079. Establishments primarily manufacturing adhesives are classified in industry 2891.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. However, the SIC number and title are unchanged. The 1972 revisions transferred the manufacture of unsupported plastics film, sheets, rods, and tubes; regenerated cellulosic products, except rayon; and custom compounded purchased resins to industry 3079, Miscellaneous Plastics Products. In addition, the production of synthetic resin adhesives, from resins manufactured in the same establishment, were transferred to industry 2891, Adhesives and Sealants. The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 986 establishments with 82.4 thousand total employment and \$2,762.7 million value added would have been classified in industry 2821 under the old SIC. As a result of the revisions, 612 establishments with 25.9 thousand employees and \$570.5 million value added shifted to industry 3079; and 46 establishments with 1.7 thousand employees and \$41.9 million value added shifted to industry 2891.

Value of shipments and other receipts of the Plastics Materials and Resins Industry in 1972 totaled \$4,478.2 million. This included shipments of plastics materials and resins (primary products) valued at \$3,550.1 million, shipments of other products (secondary products) valued at \$850.5 million, and miscellaneous receipts (mainly resales) of \$77.5 million.

Shipments of plastics materials and resins (primary products) in 1972 represented 81 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c., (\$223.0 million) and miscellaneous plastics products, (\$284.7 million).

Shipments of plastics materials and resins (primary products) from establishments classified in industry 2821 in 1972 represented 79 percent (coverage ratio) of these products valued at \$4,486.4 million shipped by all industries. Other

*Note that the "short title" for this industry is used throughout the report.

industries shipping plastics materials and resins consisted of industry 2869, Industrial Organic Chemicals, N.E.C., (\$536.6 million) and industry 2865, Cyclic Crudes and Intermediates, (\$107.6 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2821, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2822.—SYNTHETIC RUBBER (Short Title)

This industry comprises establishments primarily engaged in the manufacture of synthetic rubber by polymerization or copolymerization. An elastomer, for the purpose of this classification, is a rubber-like material capable of vulcanization, such as copolymers of butadiene and styrene or butadiene and acrylonitrile, polybutadienes, chloroprene rubbers, and isobutylene-isoprene copolymers. Butadiene copolymers containing less than 50 percent butadiene are classified in industry 2821. Natural chlorinated rubbers and cyclized rubbers are considered as semifinished products and are classified in industry 3069.

The code number and definition of this industry were unchanged between 1972 and 1967.

Value of shipments and other receipts of the Synthetic Rubber Industry in 1972 totaled \$1,089.4 million. This included shipments of synthetic rubber (primary products) valued at \$950.5 million, shipments of other products (secondary products) valued at \$110.6 million, and miscellaneous receipts (mainly resales) of \$28.3 million.

Shipments of synthetic rubber (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c., (\$50 to \$100 million).

Shipments of synthetic rubber (primary products) from establishments classified in industry 2822 in 1972 represented 74 percent (coverage ratio) of these products valued at \$1,288.6 million shipped by all industries. In 1967, the coverage ratio was 81 percent. Other industries shipping synthetic rubber consisted mainly of industry 2821, Plastics Materials and Resins, (\$81.2 million) and industry 2869, Industrial Organic Chemicals, N.E.C., (\$174.6 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at

the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2822, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 2823.—CELLULOSIC MANMADE FIBERS

This industry comprises establishments primarily engaged in manufacturing cellulosic fibers (including cellulose acetate and regenerated cellulose such as rayon, by the viscose or cuprammonium process) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229. For a detailed list of products of industry 2823, refer to table 6A, product codes 28231 11 to 28232 98.

The code number and definition of this industry were unchanged between 1972 and 1967.

Value of shipments and other receipts of the Cellulosic Manmade Fibers Industry in 1972 totaled \$589.5 million. In addition to shipments of cellulosic manmade fibers (primary products), shipments of other products (secondary products) consisted mainly of organic fibers, noncellulosic.

Other industries shipping cellulosic manmade fibers (primary products) consisted mainly of industry 2824, Organic Fibers, Noncellulosic.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2823, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2824.—ORGANIC FIBERS, NONCELLULOSIC (Short Title)

This industry comprises establishments primarily engaged in manufacturing synthetic organic fibers, except cellulosic (including those of regenerated proteins and of polymers or copolymers of such components as vinyl chloride, vinylidene chloride, linear esters, vinyl alcohols, acrylonitrile, ethylenes, amides, and related polymeric materials) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry

EXPLANATORY TEXT—Continued

3229. For a detailed list of products of industry 2824, refer to table 6A, product codes 28241 15 to 28242 76.

The code number and definition of this industry were unchanged between 1972 and 1967.

Value of shipments and other receipts of the Organic Fibers, Noncellulosic, Industry in 1972 totaled \$3,601.4 million. This included shipments of organic fibers, noncellulosic, (primary products) valued at \$2,853.6 million, shipments of other products (secondary products) valued at \$708.2 million, and miscellaneous receipts (mainly resales) of \$39.5 million.

Shipments of organic fibers, noncellulosic, (primary products) in 1972 represented 80 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent. Secondary products shipped by this industry in 1972 consisted mainly of cellulosic manmade fibers.

Shipments of organic fibers, noncellulosic (primary products) from establishments classified in industry 2824 in 1972 represented 97 percent (coverage ratio) of these products valued at \$2,949.1 million shipped by all industries. In 1967, the coverage ratio was 94 percent. Other industries shipping organic fibers, noncellulosic, consisted mainly of industry 2823, Cellulosic Manmade Fibers.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2824, these establishments accounted for less than 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS															
1972 Census.....	323	263	54.8	632.8	35.0	74.3	370.0	2,160.5	2,328.2	4,478.2	253.2	(NA)	467.7	81	79
INDUSTRY 2822.--SYNTHETIC RUBBER															
1972 Census	59	34	11.8	138.8	8.2	16.2	88.5	491.7	610.6	1,089.4	35.5	(NA)	115.9	90	74
1971 ASM	(NA)	(NA)	12.2	137.8	8.2	16.6	86.2	476.7	558.6	1,042.6	49.0	740.0	108.9	(NA)	(NA)
1970 ASM	(NA)	(NA)	12.8	135.0	8.7	17.6	84.9	460.9	558.7	1,006.6	49.5	697.1	115.7	(NA)	(NA)
1969 ASM	(NA)	(NA)	12.5	127.0	8.5	17.0	78.9	500.7	549.8	1,046.2	79.8	878.2	98.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	12.2	115.7	8.3	16.8	72.4	453.0	519.0	974.2	78.1	743.3	91.9	(NA)	(NA)
1967 Census.....	48	28	12.6	110.4	8.5	16.8	66.5	404.9	521.2	926.9	75.2	691.9	97.0	89	81
1966 ASM	(NA)	(NA)	13.2	111.7	8.6	17.2	66.6	443.4	519.8	954.7	41.9	(NA)	93.5	(NA)	(NA)
1965 ASM	(NA)	(NA)	11.9	100.0	7.8	15.9	59.3	391.9	456.8	847.7	35.1	(NA)	80.1	(NA)	(NA)
1964 ASM	(NA)	(NA)	11.9	96.3	7.9	16.2	59.6	359.9	459.7	819.3	23.3	434.4	80.4	(NA)	(NA)
1963 Census.....	24	24	11.8	93.5	7.8	15.9	56.6	329.5	435.4	763.9	32.3	418.2	76.8	92	80
1962 ASM	(NA)	(NA)	11.6	88.2	7.7	15.7	53.6	318.4	439.0	759.0	41.9	401.5	74.7	(NA)	(NA)
1961 ASM	(NA)	(NA)	10.9	79.8	7.5	14.5	49.1	291.8	406.3	696.4	59.5	(NA)	80.5	(NA)	(NA)
1960 ASM	(NA)	(NA)	11.0	77.3	7.6	15.3	48.3	275.6	457.3	725.8	48.2	(NA)	78.8	(NA)	(NA)
1959 ASM	(NA)	(NA)	9.9	67.8	6.9	14.1	43.9	281.5	434.8	703.3	17.3	(NA)	69.9	(NA)	(NA)
1958 Census	18	17	9.3	60.9	6.2	12.5	37.6	197.9	341.0	536.3	16.0	(NA)	53.8	95	83
INDUSTRY 2823.--CELLULOSIC MANMADE FIBERS															
1972 Census.....	18	13	17.1	135.2	14.4	29.6	107.1	243.5	327.8	589.5	32.7	(NA)	97.8	(D)	(D)
1971 ASM	(NA)	(NA)	20.2	149.8	17.1	33.6	119.1	349.6	331.3	662.4	52.9	623.7	133.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	21.5	142.0	17.8	35.1	109.1	322.6	299.6	620.5	38.2	614.3	104.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	29.3	190.7	24.2	49.1	148.7	499.2	384.5	872.2	82.8	871.1	139.3	(NA)	(NA)
1968 ASM	(NA)	(NA)	34.2	228.1	27.4	54.8	165.0	593.4	445.2	1,017.4	58.2	963.4	143.8	(NA)	(NA)
1967 Census.....	23	20	31.9	198.2	25.3	50.0	141.1	506.8	383.3	902.8	51.6	912.1	108.8	(D)	(D)
1966 ASM	(NA)	(NA)	34.3	208.8	27.5	55.0	150.7	550.6	395.2	924.1	89.2	(NA)	120.2	(NA)	(NA)
1965 ASM	(NA)	(NA)	34.0	198.0	27.2	54.3	141.8	515.6	393.8	903.2	73.9	(NA)	90.2	(NA)	(NA)
1964 ASM	(NA)	(NA)	31.9	182.9	25.5	52.0	132.5	483.5	353.3	838.8	83.7	710.7	90.9	(NA)	(NA)
1963 Census.....	19	19	30.1	167.0	24.0	48.1	120.5	411.5	320.0	731.8	38.1	625.6	81.6	(D)	(D)
1962 ASM	(NA)	(NA)	35.1	183.8	27.3	53.8	128.5	413.7	315.0	724.3	26.6	590.8	99.1	(NA)	(NA)
1961 ASM	(NA)	(NA)	33.1	171.7	25.6	50.1	118.1	358.4	268.3	643.8	29.8	(NA)	92.5	(NA)	(NA)
1960 ASM	(NA)	(NA)	40.3	211.0	30.7	59.3	141.3	389.1	324.6	709.1	50.7	(NA)	119.0	(NA)	(NA)
1959 ASM	(NA)	(NA)	41.5	211.3	32.2	64.0	145.4	444.8	344.2	781.9	*49.2	(NA)	114.7	(NA)	(NA)
1958 Census	26	26	42.6	211.5	31.8	62.5	141.0	390.3	322.3	722.8	42.6	(NA)	108.1	81	100
INDUSTRY 2824.--ORGANIC FIBERS, NONCELLULOSIC															
1972 Census.....	60	54	76.3	745.2	56.7	113.1	485.3	2,031.1	1,564.9	3,601.4	365.0	(NA)	440.1	80	97
1971 ASM	(NA)	(NA)	75.2	687.2	55.2	108.5	438.7	1,905.4	1,343.3	3,241.4	351.6	3,839.1	462.2	(NA)	(NA)
1970 ASM	(NA)	(NA)	75.7	642.6	54.6	107.5	405.6	1,692.6	1,198.0	2,868.8	309.0	3,598.3	455.8	(NA)	(NA)
1969 ASM	(NA)	(NA)	70.2	581.1	50.9	101.7	367.4	1,703.6	1,066.8	2,713.3	246.4	2,977.9	385.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	62.1	480.3	45.6	92.4	309.8	1,736.9	891.9	2,584.7	244.7	2,670.4	303.8	(NA)	(NA)
1967 Census.....	40	35	57.2	415.9	40.7	80.9	257.9	1,251.8	767.7	2,033.2	309.7	2,428.7	267.7	92	94
1966 ASM	(NA)	(NA)	59.1	421.3	40.6	80.7	246.0	1,301.5	733.8	1,991.8	384.7	(NA)	266.8	(NA)	(NA)
1965 ASM	(NA)	(NA)	51.5	358.5	36.5	73.6	216.4	1,215.4	683.4	1,842.9	363.0	(NA)	211.0	(NA)	(NA)
1964 ASM	(NA)	(NA)	44.3	304.6	30.7	62.3	180.6	1,043.1	540.0	1,580.6	163.6	1,288.7	130.0	(NA)	(NA)
1963 Census.....	25	24	41.4	275.8	28.4	57.2	161.0	922.0	487.8	1,403.2	170.3	1,160.7	124.0	95	97
1962 ASM	(NA)	(NA)	31.8	214.4	23.3	46.5	131.4	793.2	418.1	1,192.1	118.4	1,025.9	99.2	(NA)	(NA)
1961 ASM	(NA)	(NA)	29.0	186.4	20.4	40.2	111.8	668.1	367.4	1,039.5	117.5	(NA)	75.0	(NA)	(NA)
1960 ASM	(NA)	(NA)	23.4	141.8	17.0	33.6	88.6	549.6	321.6	868.3	48.1	(NA)	69.5	(NA)	(NA)
1959 ASM	(NA)	(NA)	22.2	129.6	16.3	32.2	82.2	557.8	333.7	875.1	24.7	(NA)	68.9	(NA)	(NA)
1958 Census	14	14	18.7	102.7	12.9	26.0	61.9	439.6	243.7	668.4	53.7	(NA)	48.6	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2821	Industry 2822	Industry 2823	Industry 2824
1972.....	191	50	13	35
1967.....	(NA)	33	13	22
1963.....	(NA)	16	8	14

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS											
1972 Census.....	11,547	(NA)	64	2,123	4.98	.52	.66	(NA)	39,425	30	29.08
INDUSTRY 2822.--SYNTHETIC RUBBER											
1972 Census.....	11,763	(NA)	69	1,976	5.46	.56	.69	(NA)	41,669	28	30.35
1971 ASM.....	11,295	60,670	67	2,024	5.19	.54	.67	.71	39,074	29	28.72
1970 ASM.....	10,547	54,460	68	2,023	4.82	.56	.69	.69	36,008	29	26.19
1969 ASM.....	10,160	70,260	68	2,000	4.64	.53	.65	.84	40,056	25	29.45
1968 ASM.....	9,484	60,930	68	2,024	4.31	.53	.65	.76	37,131	26	26.96
1967 Census.....	8,733	54,910	67	1,985	3.94	.56	.68	.75	32,022	27	24.04
1966 ASM.....	8,451	(NA)	65	2,015	3.86	.54	.66	(NA)	33,551	25	25.71
1965 ASM.....	8,415	(NA)	66	2,034	3.73	.54	.66	(NA)	32,987	26	24.65
1964 ASM.....	8,099	36,500	66	2,056	3.67	.56	.68	.53	30,282	27	22.15
1963 Census.....	7,898	35,440	66	2,029	3.56	.57	.69	.55	27,831	28	20.7
1962 ASM.....	7,605	34,610	67	2,034	3.40	.58	.69	.53	27,469	28	20.22
1961 ASM.....	7,304	(NA)	68	1,951	3.38	.58	.70	(NA)	26,700	27	20.07
1960 ASM.....	7,015	(NA)	69	2,017	3.16	.63	.74	(NA)	24,993	28	18.03
1959 ASM.....	6,846	(NA)	70	2,037	3.12	.62	.71	(NA)	28,442	24	20.03
1958 Census.....	6,583	(NA)	67	2,014	3.00	.64	.75	(NA)	21,386	31	15.79
INDUSTRY 2823.--CELLULOSIC MANMADE FIBERS											
1972 Census.....	7,906	(NA)	84	2,055	3.62	.56	.78	(NA)	14,240	55	8.23
1971 ASM.....	7,416	30,880	85	1,965	3.55	.50	.73	.94	17,307	43	10.41
1970 ASM.....	6,605	28,570	83	1,972	3.11	.48	.71	.99	15,005	44	9.19
1969 ASM.....	6,509	29,730	83	2,029	3.03	.44	.66	1.00	17,038	38	10.17
1968 ASM.....	6,670	28,170	80	2,000	3.01	.44	.66	.95	17,351	38	10.83
1967 Census.....	6,218	28,590	79	1,976	2.82	.42	.64	1.01	15,898	39	10.14
1966 ASM.....	6,083	(NA)	80	2,002	2.74	.43	.65	(NA)	16,043	38	10.00
1965 ASM.....	5,830	(NA)	80	1,996	2.61	.44	.66	(NA)	15,185	38	9.49
1964 ASM.....	5,734	22,280	80	2,040	2.55	.42	.64	.85	15,162	38	9.31
1963 Census.....	5,552	20,780	80	2,003	2.50	.44	.67	.85	13,678	41	8.55
1962 ASM.....	5,239	16,830	78	1,969	2.39	.43	.69	.82	11,793	44	7.70
1961 ASM.....	5,192	(NA)	77	1,959	2.36	.42	.68	(NA)	10,838	48	7.15
1960 ASM.....	5,235	(NA)	76	1,930	2.38	.46	.76	(NA)	9,654	54	6.56
1959 ASM.....	5,093	(NA)	78	1,989	2.27	.44	.71	(NA)	10,724	47	6.95
1958 Census.....	4,965	(NA)	75	1,967	2.26	.45	.74	(NA)	9,163	54	6.25
INDUSTRY 2824.--ORGANIC FIBERS, NONCELLULOSIC											
1972 Census.....	9,768	(NA)	74	1,995	4.29	.43	.64	(NA)	26,620	37	17.96
1971 ASM.....	9,138	51,050	73	1,966	4.04	.41	.63	1.18	25,338	36	17.56
1970 ASM.....	8,489	40,820	72	1,969	3.77	.42	.64	1.25	22,359	38	15.75
1969 ASM.....	8,278	42,420	73	1,998	3.61	.39	.61	1.10	24,268	34	16.75
1968 ASM.....	7,734	43,000	73	2,026	3.35	.35	.53	1.03	27,969	28	18.80
1967 Census.....	7,273	42,460	71	1,990	3.19	.38	.58	1.19	21,890	33	15.47
1966 ASM.....	7,127	(NA)	69	1,987	3.05	.37	.58	(NA)	22,018	32	16.12
1965 ASM.....	6,965	(NA)	71	2,020	2.94	.37	.57	(NA)	23,614	29	16.50
1964 ASM.....	6,874	29,090	69	2,029	2.90	.34	.53	.82	23,537	29	16.74
1963 Census.....	6,659	28,040	69	2,017	2.81	.35	.54	.83	22,259	30	16.11
1962 ASM.....	6,734	32,260	73	1,998	2.83	.35	.53	.86	24,916	27	17.07
1961 ASM.....	6,439	(NA)	70	1,973	2.78	.35	.53	(NA)	23,072	28	16.61
1960 ASM.....	6,052	(NA)	73	1,973	2.64	.37	.53	(NA)	23,459	26	16.37
1959 ASM.....	5,843	(NA)	73	1,979	2.55	.38	.53	(NA)	25,149	23	17.32
1958 Census.....	5,499	(NA)	69	2,018	2.38	.35	.50	(NA)	23,530	23	16.89

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)				(number)	(number)			
New industry 2821.--Plastics Materials and Resins.....	323	263	54.8	2,160.5	4,478.2	(X)	(X)	(X)	(X)	(X)
Old industry 2821.--Plastics Materials and Resins.....	323	263	54.8	2,160.5	4,478.2	986	488	82.4	2,762.7	5,696.0

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2821-- PLASTICS MATERIALS AND RESINS													
UNITED STATES.	323	263	54.8	632.8	35.0	74.3	370.0	2 160.5	2 328.2	4 478.2	253.2	(NA)	(NA)
NORTHEAST REGION	96	81	21.1	238.8	12.5	26.9	129.3	631.3	724.4	1 366.3	53.0	(NA)	(NA)
NEW ENGLAND DIVISION	30	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	21	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	66	53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	13	10	2.0	21.4	1.2	2.5	10.4	67.7	55.5	122.4	3.9	(NA)	(NA)
NEW JERSEY	30	24	5.3	59.4	3.3	7.9	36.2	160.5	214.5	385.3	13.8	(NA)	(NA)
PENNSYLVANIA	23	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	92	75	14.8	171.0	10.5	22.1	112.2	669.0	648.8	1 297.0	105.4	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	80	64	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	31	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA.	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	26	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	12	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA.	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	88	71	16.7	200.8	10.8	22.6	116.4	758.6	832.0	1 593.6	100.6	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	35	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DELAWARE	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND.	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA.	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	6	4	.2	1.4	.1	.3	1.0	12.0	17.1	29.4	.7	(NA)	(NA)
FLORIDA.	7	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	18	15	4.5	49.4	3.2	6.6	32.0	151.0	186.4	333.4	17.3	(NA)	(NA)
KENTUCKY	8	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	35	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	8	8	1.8	22.6	1.2	2.8	15.2	109.7	101.7	208.9	7.8	(NA)	(NA)
TEXAS.	22	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	47	36	2.2	22.1	1.3	2.7	12.1	101.5	122.9	221.3	10.9	(NA)	(NA)
PACIFIC DIVISION	46	35	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	43	34	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2822-- SYNTHETIC RUBBER													
UNITED STATES.	59	34	11.8	138.8	8.2	16.2	88.5	491.7	610.6	1 089.4	35.5	12.6	404.9 *
NORTH CENTRAL REGION. E1	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
EAST NORTH CENTRAL DIVISION. E1	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO.	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MICHIGAN. E3	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION.	28	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.1	315.6
SOUTH ATLANTIC DIVISION.	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
DELAWARE.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSISSIPPI.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	18	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	200.0
LOUISIANA.	6	5	FF	21.2	1.4	2.9	15.4	74.8	89.9	164.4	4.0	EE	(D)
TEXAS.	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.1	147.9
WEST REGION.	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION.	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA.	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2823-- CELLULOSIC MANMADE FIBERS													
UNITED STATES.	18	13	17.1	135.2	14.4	29.6	107.1	243.5	327.8	580.5	32.7	31.9	506.8
NORTHEAST REGION.	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION.	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA.	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION.	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
EAST NORTH CENTRAL DIVISION.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION.	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH ATLANTIC DIVISION.	8	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MARYLAND.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
VIRGINIA.	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST VIRGINIA.	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
GEORGIA.	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
EAST SOUTH CENTRAL DIVISION.	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TENNESSEE.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ALABAMA.	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2824-- ORGANIC FIBERS, NONCELLULOSIC													
UNITED STATES.	60	54	76.3	745.2	56.7	113.1	485.3	2 031.1	1 564.9	3 601.4	365.0	57.2	1 251.8
NORTHEAST REGION.	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION.	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEW YORK.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION.	50	49	75.9	741.7	56.4	112.2	482.2	2 024.1	1 559.4	3 533.3	364.0	FF	(D)
SOUTH ATLANTIC DIVISION.	35	35	54.6	531.1	41.1	82.6	350.7	1 524.8	1 100.7	2 433.1	299.4	FF	(D)
DELAWARE.	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MARYLAND.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
VIRGINIA.	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.7	358.2
NORTH CAROLINA.	11	11	16.0	140.7	12.4	25.1	96.4	439.4	370.5	808.1	129.6	10.2	199.2
SOUTH CAROLINA.	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
GEORGIA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION.	15	14	21.3	210.7	15.3	29.7	131.6	499.7	458.7	950.6	64.6	10.8	254.6
TENNESSEE.	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ALABAMA.	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Plastics materials and resins (SIC 2821)	Synthetic rubber (SIC 2822)	Cellulosic manmade fibers (SIC 2823)	Organic fibers, noncellulosic (SIC 2824)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT .	81	90	(D)	80
COVERAGE RATIO ² %	79	74	(D)	97
ESTABLISHMENTS, TOTAL NUMBER .	323	59	1E	60
WITH 1 TO 19 EMPLOYEES	60	25	5	6
WITH 20 TO 99 EMPLOYEES	147	12	2	11
WITH 100 EMPLOYEES OR MORE	116	22	11	43
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000 .	54.8	11.8	17.1	76.3
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS .	632.8	138.6	135.2	745.2
PRODUCTION WORKERS:				
AVERAGE FOR YEAR 1,000 .	35.0	8.2	14.4	56.7
MARCH	34.5	8.3	14.7	55.0
MAY	34.4	8.3	14.4	55.8
AUGUST	35.5	8.1	12.7	57.8
NOVEMBER	35.8	8.1	12.2	58.4
MAN-HOURS MILLIONS .	74.3	16.2	29.6	113.1
JANUARY-MARCH	18.3	3.9	7.5	27.5
APRIL-JUNE	18.8	4.1	7.2	27.6
JULY-SEPTEMBER	18.1	4.1	7.4	28.4
OCTOBER-DECEMBER	19.2	4.1	7.5	29.6
WAGES MILLION DOLLARS .	370.0	88.5	107.1	485.3
COST OF MATERIALS, ETC., TOTAL \$.	2 328.2	610.6	327.8	1 564.9
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED \$.	2 120.0	556.5	264.7	1 414.4
COST OF REALES	59.3	(D)	(D)	35.0
FUELS CONSUMED	70.3	16.3	32.6	57.9
PURCHASED ELECTRIC ENERGY	65.7	14.0	5.1	45.1
CONTRACT WORK	12.8	(D)	(D)	12.4
VALUE OF SHIPMENTS, INCLUDING REALES \$.	4 478.2	1 089.4	589.5	3 601.4
VALUE OF REALES	64.6	(D)	(D)	37.1
VALUE ADDED BY MANUFACTURE \$.	2 160.5	491.7	243.5	2 031.1
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL \$.	431.3	104.7	129.0	440.4
FINISHED PRODUCTS	244.7	69.3	55.9	277.2
WORK IN PROCESS	45.3	6.7	26.9	58.6
MATERIALS, SUPPLIES, FUEL, ETC.	141.2	28.7	46.3	104.6
END OF YEAR, TOTAL \$.	467.7	115.9	97.8	440.1
FINISHED PRODUCTS	255.1	78.5	48.5	262.2
WORK IN PROCESS	45.5	10.3	16.2	68.3
MATERIALS, SUPPLIES, FUEL, ETC.	167.1	27.1	33.0	109.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL \$.	256.3	36.7	32.7	374.4
NEW PLANT AND EQUIPMENT, TOTAL	253.2	35.5	32.7	365.0
NEW STRUCTURES AND ADDITIONS TO PLANT	45.5	3.5	2.1	43.0
NEW MACHINERY AND EQUIPMENT	207.8	32.0	30.6	322.0
USED PLANT AND EQUIPMENT	2.9	1.2	(Z)	9.4

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
2821-- PLASTICS MATERIALS AND RESINS											
ESTABLISHMENTS, TOTAL.	323	54.8	632.8	35.0	74.3	370.0	2 160.5	2 328.2	4 478.2	253.2	467.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	15	(Z)	.4	(Z)	(Z)	.2	1.8	1.2	2.9	.1	.2
5 TO 9 EMPLOYEES	15	.1	1.2	.1	.1	.5	5.1	4.3	9.5	.3	.6
10 TO 19 EMPLOYEES	30	.5	4.4	.3	.6	2.3	23.3	29.8	50.4	1.3	5.5
20 TO 49 EMPLOYEES	92	3.0	29.9	1.9	4.2	17.2	139.5	220.7	355.0	18.7	33.7
50 TO 99 EMPLOYEES	55	3.8	38.0	2.6	5.5	22.3	126.3	191.5	315.1	12.1	30.9
100 TO 249 EMPLOYEES	66	10.6	113.6	6.6	14.4	67.8	468.0	565.7	1 034.1	63.2	111.6
250 TO 499 EMPLOYEES	26	9.1	106.9	6.3	13.9	70.3	434.3	447.5	862.4	66.7	94.0
500 TO 999 EMPLOYEES	14	9.3	112.6	5.7	12.2	62.3	347.7	384.1	737.3	41.5	73.1
1,000 TO 2,499 EMPLOYEES	8	18.5	225.9	11.5	23.3	127.2	614.5	483.3	1 091.0	48.8	117.2
2,500 EMPLOYEES OR MORE.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2822-- SYNTHETIC RUBBER											
ESTABLISHMENTS, TOTAL.	59	11.8	138.8	8.2	16.2	88.5	491.7	610.6	1 089.4	35.5	115.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	10	(Z)	.1	(Z)	(Z)	.1	.6	.7	1.3	.1	.1
5 TO 9 EMPLOYEES E1	6	(Z)	.4	(Z)	.1	.3	1.9	1.4	3.4	.1	.2
10 TO 19 EMPLOYEES E3	9	.1	1.0	.1	.2	.6	4.4	3.8	8.2	.7	.6
20 TO 49 EMPLOYEES	8	.3	2.6	.2	.4	1.4	5.0	11.8	16.6	.2	1.3
50 TO 99 EMPLOYEES	4	.3	2.3	.1	.3	1.1	8.4	11.6	20.1	.4	2.5
100 TO 249 EMPLOYEES	6	1.1	11.8	.8	1.7	8.7	56.8	40.9	97.3	1.7	9.2
250 TO 499 EMPLOYEES	6	2.1	25.1	1.2	2.5	14.0	72.6	136.1	212.7	5.7	23.5
500 TO 999 EMPLOYEES	3	7.9	95.4	5.6	11.1	62.4	342.0	404.3	729.9	26.6	78.5
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	9	(Z)	.3	(Z)	(Z)	.2	.9	1.1	2.0	.1	.2
2823-- CELLULOSIC MANMADE FIBERS											
ESTABLISHMENTS, TOTAL.	18	17.1	135.2	14.4	29.6	107.1	243.5	327.8	589.5	32.7	97.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	2	(Z)	(Z)	(Z)	.1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
5 TO 9 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	2	17.1	135.2	14.4	29.6	107.1	243.5	327.8	589.5	32.7	97.8
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2824-- ORGANIC FIBERS, NONCELLULOSIC											
ESTABLISHMENTS, TOTAL.	60	76.3	745.2	56.7	113.1	485.3	2 031.1	1 564.9	3 501.4	365.0	440.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	3	(Z)	.2	(Z)	(Z)	.2	1.0	.7	1.8	.2	.3
5 TO 9 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	7	.2	1.5	.2	.4	1.1	4.9	2.2	7.2	.3	.6
50 TO 99 EMPLOYEES	4	.3	2.1	.3	.6	1.5	7.6	4.5	11.0	(D)	2.2
100 TO 249 EMPLOYEES	7	1.2	8.6	1.1	2.5	7.0	16.2	24.3	40.1	2.1	5.5
250 TO 499 EMPLOYEES	4	1.5	11.7	1.1	2.4	7.6	43.7	51.3	95.6	23.5	9.6
500 TO 999 EMPLOYEES	8	5.0	42.1	3.7	7.6	27.8	114.0	125.6	237.2	18.8	39.2
1,000 TO 2,499 EMPLOYEES	9	15.7	144.6	11.6	24.2	94.9	428.0	356.0	791.1	172.8	85.2
2,500 EMPLOYEES OR MORE.	15	52.3	534.4	38.7	75.4	345.3	1 415.7	1 000.3	2 417.4	143.7	297.6
ESTABS. COVERED BY ADMIN. RECORD ¹ .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2821	PLASTICS MATERIALS AND RESINS										
	ENTIRE INDUSTRY	323	54.8	632.8	35.0	74.3	370.0	2 160.5	2 328.2	4 478.2	253.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	249	36.3	414.1	23.0	49.5	239.0	1 433.5	1 560.5	2 982.2	176.4
28213	THERMOPLASTIC RESINS AND PLASTICS MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	194	46.1	539.0	29.4	62.1	317.0	1 895.4	1 888.7	3 779.2	242.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	140	24.8	285.3	16.1	34.3	169.8	1 040.1	1 098.7	2 127.0	152.2
28214	THERMOSETTING RESINS AND PLASTICS MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	121	9.5	103.1	6.0	13.0	58.6	333.3	458.0	706.2	27.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	79	6.4	67.4	4.0	8.6	38.1	218.1	277.1	496.5	11.8
2822	SYNTHETIC RUBBER										
	ENTIRE INDUSTRY	59	11.8	138.8	8.2	16.2	88.5	491.7	610.6	1 089.4	35.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	52	8.9	100.8	6.5	12.9	68.6	371.3	517.3	879.0	19.0
2823	CELLULOSIC MANMADE FIBERS										
	ENTIRE INDUSTRY	16	17.1	135.2	14.4	29.6	107.1	243.5	227.8	580.5	32.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	16	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
28231	ACETATE YARN (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
28232	RAYON YARN, VISCOSE AND CUPRAMMONIUM PROCESSES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	6	8.7	68.9	7.5	15.8	58.0	130.6	206.7	333.2	11.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2824	ORGANIC FIBERS, NONCELLULOSIC										
	ENTIRE INDUSTRY	60	76.3	745.2	56.7	113.1	485.3	2 031.1	1 564.9	3 601.4	365.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	50	42.2	416.3	31.3	63.9	268.9	1 156.0	937.1	2 085.8	287.7
28241	POLYAMIDE FIBERS, NYLON, ETC. NONTEXTILE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	23	36.9	354.5	28.3	55.5	240.5	912.8	617.8	1 540.6	95.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	14	13.7	136.8	10.3	20.5	89.3	272.1	224.1	492.5	36.1
28242	OTHER NONCELLULOSIC SYNTHETIC ORGANIC FIBERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	30	39.3	390.2	28.4	57.4	244.3	1 116.7	946.0	2 057.9	269.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	25	22.3	217.5	16.3	34.0	138.8	684.4	584.0	1 259.2	220.4

(0) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
2821	Plastics materials and resins.....1972.. 1967..	4,478.2 (NA)	3,550.1 (NA)	850.5 (NA)	77.5 (NA)	81 (NA)	4,486.4 (NA)	3,550.1 (NA)	936.3 (NA)	79 (NA)
2822	Synthetic rubber.....1972.. 1967..	1,089.4 926.9	950.5 814.4	110.6 97.4	28.3 15.2	90 89	1,288.6 1,004.9	950.5 814.4	338.1 190.5	74 81
2823	Cellulosic manmade fibers.....1972.. 1967..	589.5 902.8	(D) (D)	(D) (D)	(D) 3.3	(D) (D)	684.6 681.1	(D) (D)	(D) (D)	(D) (D)
2824	Organic fibers, noncellulosic.....1972.. 1967..	3,601.4 2,033.2	2,853.6 1,863.9	708.2 159.9	39.5 9.4	80 92	2,949.1 1,974.1	2,853.6 1,863.9	95.5 110.2	97 94

(NA) Not available.

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Plastics materials and resins (SIC 2821)	Synthetic rubber (SIC 2822)	Cellulosic manmade fibers (SIC 2823)	Organic fibers, noncellu- losic (SIC 2824)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	4,478.2	1,089.4	589.5	3,601.4	(X)
2821-	Plastics materials and resins....	4,486.4	3,550.1	(5-10)	-	(20-50)	904.4
28213	Thermoplastic resins.....	3,576.8	2,811.7	(5-10)	-	(20-50)	733.3
28214	Thermosetting resins.....	904.9	(500-750)	-	-	-	(100-200)
28210	Plastics and resin materials, n.s.k.....	4.7	(2-5)	-	-	-	(under 2)
2822-	Synthetic rubber.....	1,288.6	81.2	950.5	-	-	256.9
2823-	Cellulosic manmade fibers.....	684.6	-	-	(500- 1,000)	(100-200)	-
28231	Acetate yarn.....	295.3	-	-	(200-500)	(50-100)	-
28232	Rayon yarn, viscose and cupra- monium processes.....	387.8	-	-	(200-500)	(50-100)	-
28230	Cellulosic manmade fibers, n.s.k.....	1.5	-	-	1.5	-	-
2824-	Organic fibers, noncellulosic....	2,949.1	(2-5)	-	(20-50)	2,853.6	(50-100)
28241	Polyamide fibers, nylon except monofilaments.....	1,251.8	-	-	(10-20)	(1,000- 2,500)	-
28242	Other noncellulosic synthetic organic fibers.....	1,694.1	(2-5)	-	(20-50)	1,615.1	(50-100)
28240	Organic fibers, noncellulosic, n.s.k.....	3.1	-	-	-	(2-5)	(under 2)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Plastics materials and resins (SIC 2821)	Synthetic rubber (SIC 2822)	Cellulosic manmade fibers (SIC 2823)	Organic fibers, noncellulosic (SIC 2824)	Other industries
	Shipments and miscellaneous receipts--Continued						
	Other product shipments by 4-digit product group:						
2075-	Soybean oil mills.....	(X)	(over 2)	-	-	-	(X)
2282-	Throwing and winding mills.....	(X)	-	-	-	312.1	(X)
2295-	Coated fabrics, not rubberized.....	(X)	(2-5)	-	-	-	(X)
2296-	Tire cord and fabric.....	(X)	-	-	(over 2)	-	(X)
2297-	Nonwoven fabrics.....	(X)	-	-	(over 2)	(50-100)	(X)
2298-	Cordage and twine.....	(X)	(over 2)	-	-	-	(X)
2299-	Textile goods, n.e.c.....	(X)	-	-	-	(2-5)	(X)
2621-	Paper mills, except building paper.....	(X)	(over 2)	-	-	-	(X)
2649-	Converted paper products, n.e.c.....	(X)	(over 2)	-	-	-	(X)
2813-	Industrial gases.....	(X)	(2-5)	-	-	-	(X)
2819-	Industrial inorganic chemicals, n.e.c.....	(X)	11.9	-	(5-10)	(2-5)	(X)
2833-	Medicinals and botanicals.....	(X)	(10-20)	(over 2)	-	-	(X)
2841-	Soap and other detergents.....	(X)	(20-50)	-	-	-	(X)
2843-	Surface active agents.....	(X)	17.4	(under 2)	-	-	(X)
2851-	Paints and allied products.....	(X)	6.8	-	-	-	(X)
2865-	Cyclic crudes and intermediates.....	(X)	40.8	(over 2)	-	-	(X)
2869-	Industrial organic chemicals, n.e.c.....	(X)	223.0	(50-100)	(over 2)	(over 2)	(X)
2873-	Nitrogenous fertilizers.....	(X)	(X)	(over 2)	-	-	(X)
2879-	Agricultural chemicals, n.e.c.....	(X)	(20-50)	(X)	-	-	(X)
2891-	Adhesives and sealants.....	(X)	28.9	(2-5)	-	-	(X)
2899-	Chemical preparations, n.e.c.....	(X)	39.9	(X)	-	-	(X)
2911-	Petroleum refining.....	(X)	(10-20)	(5-10)	-	-	(X)
3079-	Miscellaneous plastics products.....	(X)	284.7	-	-	(50-100)	(X)
	Other products.....	(X)	7.2	(under 2)	(2-5)	(2-5)	(X)
	Miscellaneous receipts.....	(X)	77.6	28.3	(20-50)	39.5	(X)
	Resales.....	(X)	64.6	27.9	(20-50)	37.1	(X)
	Contract work.....	(X)	5.3				
	Other.....	(X)	7.6	.4		2.4	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries					
	Listing of the other industries with over \$2 million shipments of the primary products						
2821-	2812 Alkalies and chlorine.....	(20-50)					
	2816 Inorganic pigments.....	(over 2)					
	2819 Industrial inorganic chemicals, n.e.c.....	(10-20)					
	2843 Surface active agents.....	9.0					
	2851 Paints and allied products.....	47.9					
	2861 Gum and wood products.....	(10-20)					
	2865 Cyclic crudes and intermediates.....	107.6					
	2869 Industrial organic chemicals, n.e.c.....	536.6					
	2891 Adhesives and sealants.....	14.1					
	2899 Chemical preparations, n.e.c.....	11.4					
	2911 Petroleum refining.....	(10-20)					
	3011 Tires and inner tubes.....	(over 2)					
	3069 Fabricated rubber products, n.e.c.....	(2-5)					
	3079 Miscellaneous plastics products.....	47.7					
	3229 Pressed and blown glass, n.e.c.....	(over 2)					
2822-	2865 Cyclic crudes and intermediates.....	35.5					
	2869 Industrial organic chemicals, n.e.c.....	174.6					
	2911 Petroleum refining.....	(over 2)					
	3011 Tires and inner tubes.....	(over 2)					
	3069 Fabricated rubber products, n.e.c.....	5.6					
2824-	2221 Weaving mills, synthetics.....	(over 2)					
	2282 Throwing and winding mills.....	(20-50)					
	2869 Industrial organic chemicals, n.e.c.....	(over 2)					
	3069 Fabricated rubber products, n.e.c.....	(over 2)					
	3079 Miscellaneous plastics products.....	(10-20)					

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2821- --	PLASTICS MATERIALS AND RESINS, TOTAL ¹.....	.....	(X)	(X)	4,486.4	(X)	(X)	2,784.9
28213 00	Thermoplastic Resins.....	.....	(X)	(X)	² 3,576.8	(X)	(X)	1,924.8
28214 00	Thermosetting Resins.....	.....	(X)	(X)	² 904.9	(X)	(X)	544.8
28216 --	Synthetic Resins for Protective Coatings.....	Mil. lb..	(X)	(X)	(²)	1,228.0	1,176.8	286.6
28216 11	For use in latex base emulsion paints including acrylic, styrene-butadiene, vinyl, etc.....	...do....	(X)	(X)	(X)	505.0	480.2	125.2
28216 21	For use in other types of paint.....	...do....	(X)	(X)	(X)	725.5	697.9	159.1
28216 00	Synthetic resins for protective coatings, n.s.k.....	...do....	(X)	(X)	(X)	7.3	7.0	2.3
28210 00	Plastics materials, synthetic resins, and nonvulcanized elasto- mers, n.s.k., for companies with 10 employees or more.....	.....	(X)	(X)	4.7	(X)	(X)	28.7
2822- --	SYNTHETIC RUBBER:							
28220 00	Synthetic rubber (vulcanizable elastomers) ³	Mil. lb..	(S)	(S)	1,288.6	⁴ 1,376.4	⁴ 4,365.2	1,004.9
2823- --	CELLULOSIC MANMADE FIBERS, TOTAL.....	.....	(X)	(X)	684.6	(X)	(X)	681.1
28231 --	Acetate Yarn.....	Mil. lb..	492.4	536.0	295.3	487.2	491.9	339.7
	Packaged yarn:							
28231 11	45 denier (47 denier and finer).....	...do....	74.5	100.7	69.1	148.1	147.3	118.4
28231 13	55 denier (48 to 62 denier).....	...do....						
28231 15	75 denier (63 to 87 denier).....	...do....						
28231 17	100 denier (88 to 112 denier).....	...do....						
28231 21	120 denier (113 to 137 denier).....	...do....						
28231 23	150 denier (138 to 162 denier).....	...do....	34.5	35.4	22.9	28.3	28.8	21.0
28231 25	200 denier (163 to 237 denier).....	...do....						
28231 27	300 denier (238 denier and more).....	...do....						
28231 41	Staple.....	...do....						
28231 59	Tow, except cigarette filters.....	...do....						
28231 98	Other acetate products, n.e.c., including salable waste.....	...do....	316.7	323.4	150.5	93.4	96.2	44.9
28231 00	Acetate yarn, n.s.k.....	...do....						
28232 --	Rayon Yarn, Viscose and Cuprammonium Processes.....	...do....	(NA)	(NA)	387.8	(NA)	(NA)	340.5
	Packaged yarn, including rayon horsehair, straw, etc. (monofilaments by denier):							
28232 11	45 denier (47 denier and finer).....	...do....	11.4	11.8	11.8	9.5	9.5	9.3
28232 13	55 denier (48 to 62 denier).....	...do....						
28232 15	75 denier (63 to 87 denier).....	...do....						
28232 17	100 denier (88 to 112 denier).....	...do....						
28232 21	125 denier (113 to 137 denier).....	...do....						
28232 23	150 denier (138 to 162 denier).....	...do....	48.2	45.6	39.4	62.4	64.7	48.0
28232 25	200 denier (163 to 237 denier).....	...do....						
28232 27	250 and 300 denier (238 to 374 denier).....	...do....						
28232 31	450 denier (375 to 524 denier).....	...do....						
28232 33	600 denier (525 to 749 denier).....	...do....						
28232 35	900 denier (750 to 999 denier).....	...do....	24.1	24.2	19.4	5.4	6.0	3.9
28232 37	1,100 denier (1,000 to 1,374 denier).....	...do....						
28232 39	1,650 denier (1,375 denier and more).....	...do....						
28232 41	Staple.....	...do....						
28232 51	Tow.....	...do....						
28232 61	Waste, including staple waste.....	...do....	(NA)	(NA)	12.4	9.0	10.9	3.3
28232 98	Other rayon products, n.e.c.....	...do....						
28232 00	Rayon yarn, viscose and cuprammonium processes, n.s.k.....	...do....						
28230 00	Cellulosic manmade fibers, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	(X)	1.5	(X)	(X)	.9
28230 02	Cellulosic manmade fibers, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	(X)	(Z)	(X)	(X)	(Z)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2824- --	ORGANIC FIBERS, NONCELLULOSIC, TOTAL.....	.....	(X)	(X)	2,949.1	(X)	(X)	1,974.1
28241 --	Polyamide Fibers, Nylon, Except Nontextile Monofilaments.....	Mil. lb..	2,206.7	1,820.9	1,251.8	1,157.8	1,163.1	1,068.4
28241 15	Filament yarn and textile monofilaments.....	...do....	1,468.3	1,093.8	938.8	958.2	975.1	984.7
28241 33	Staple.....	...do....	738.4	727.1	313.0	199.6	188.0	83.7
28241 35	Tow.....	...do....						
28241 43	Salable waste for textile use.....	...do....						
28241 00	Polyamide fibers, nylon, except nontextile monofilaments, n.s.k. ....	...do....	(X)	(X)	-	(NA)	(NA)	(NA)
28242 --	Other Noncellulosic Synthetic Organic Fibers.....	...do....	3,357.9	3,112.3	1,694.1	1,246.4	1,223.6	905.3
	Acrylic and modacrylic:							
28242 31	Filament yarn and textile monofilaments.....	...do....	654.9	652.3	331.9	399.8	389.5	287.2
28242 33	Staple.....	...do....						
28242 35	Tow.....	...do....						
28242 37	Salable waste for textile use.....	...do....				(NA)	(NA)	(NA)
	Polyester:							
28242 51	Filament yarn and textile monofilaments.....	...do....	906.3	863.7	742.3	712.8	695.5	494.6
28242 53	Staple.....	...do....	1,579.6	1,453.3	487.1			
28242 56	Tow and fiberfill.....	...do....						
28242 57	Salable waste for textile use.....	...do....				(NA)	(NA)	(NA)
	Polyolefin:							
28242 62	Filament yarn and textile monofilaments.....	...do....	100.7	34.7	30.0	(NA)	(NA)	(NA)
28242 64	Film fiber, slit and split.....	...do....	94.4	86.7	41.6	(NA)	(NA)	(NA)
28242 66	Staple.....	...do....				(NA)	(NA)	(NA)
28242 67	Tow.....	...do....				(NA)	(NA)	(NA)
28242 68	Salable waste for textile use.....	...do....				(NA)	(NA)	(NA)
	Other noncellulosic manmade fibers (except glass), including saran, spandex, and anidex (extruded and split), vinyon, fluorocarbon, etc.:							
28242 71	Filament yarn and textile monofilaments.....	...do....	22.0	21.6	60.3	(NA)	(NA)	(NA)
28242 72	Staple.....	...do....				(NA)	(NA)	(NA)
28242 74	Tow.....	...do....				(X)	(X)	-
28242 76	Salable waste for textile use.....	...do....	(X)	(X)	-	(NA)	(NA)	(NA)
28242 00	Other noncellulosic synthetic organic fibers, n.s.k. ....	...do....	(X)	(X)	.8	(NA)	(NA)	(NA)
28240 00	Organic fibers, noncellulosic, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	(X)	3.1	(X)	(X)	.4
28240 02	Organic fibers, noncellulosic, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	(X)	-	(X)	(X)	-

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review. (Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

¹Data on the quantity and value of specific resins may be found in the U.S. Tariff Commission's Annual Report, "Synthetic Organic Chemicals."

²Due to revisions in the Standard Industrial Classification, data for "synthetic resins for protective coatings," code 28216, are included in "thermoplastic resins," code 28213, and "thermosetting resins," code 28214.

³For quantity of production of individual synthetic rubbers, refer to Current Industrial Reports series M30A, Rubber: Supply and Distribution for the United States, Summary for 1967 and 1972.

⁴Data for 1967 include the oil content of oil-extended elastomers. Data also include figures for polyurethane elastomers, which are not covered in Current Industrial Reports series M30A.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
THERMOPLASTIC RESINS AND PLASTICS MATERIALS (28213)			THERMOSETTING RESINS AND PLASTICS MATERIALS (28214)--Continued		
United States.....	3,576.8	¹ 1,924.8	South Region.....	268.4	130.6
Northeast Region.....	790.1	443.7	South Atlantic Division.....	129.8	74.3
New England Division.....	247.0	162.8	Delaware.....	BB	CC
New Hampshire.....	BB	BB	Maryland.....	BB	BB
Massachusetts.....	193.9	131.5	Virginia.....	BB	(NA)
Rhode Island.....	CC	BB	West Virginia.....	GG	FF
Connecticut.....	41.7	26.0	North Carolina.....	22.6	13.0
Middle Atlantic Division.....	543.1	280.8	South Carolina.....	EE	8.8
New York.....	63.6	35.7	Georgia.....	CC	4.6
New Jersey.....	250.1	118.1	Florida.....	EE	AA
Pennsylvania.....	229.4	127.0	East South Central Division.....	54.5	15.0
North Central Region.....	921.0	357.1	Kentucky.....	CC	(NA)
East North Central Division.....	837.7	GG	Tennessee.....	CC	BB
Ohio.....	317.3	135.7	Alabama.....	11.3	4.6
Indiana.....	109.5	FF	Mississippi.....	FF	CC
Illinois.....	239.6	80.0	West South Central Division.....	84.2	41.3
Michigan.....	GG	GG	Arkansas.....	CC	(NA)
Wisconsin.....	CC	(NA)	Louisiana.....	2.3	CC
West North Central Division.....	83.3	(NA)	Texas.....	73.1	FF
Minnesota.....	BB	(NA)	West Region.....	89.5	60.9
Iowa.....	FF	(NA)	Pacific Division.....	GG	60.9
Missouri.....	EE	(NA)	Oregon.....	EE	22.6
Kansas.....	EE	(NA)	California.....	71.3	32.9
South Region.....	1,749.4	1,072.3	RAYON YARN, VISCOSE AND CUPRAMMONIUM PROCESSES (28232)		
South Atlantic Division.....	425.1	236.9	United States.....	387.8	340.5
Delaware.....	75.2	31.8	Northeast Region.....	EE	FF
Maryland.....	EE	AA	Middle Atlantic Division.....	EE	FF
Virginia.....	EE	CC	Pennsylvania.....	EE	FF
West Virginia.....	256.1	176.3	North Central Region.....	EE	FF
North Carolina.....	BB	EE	East North Central Division.....	EE	FF
South Carolina.....	BB	AA	Ohio.....	EE	FF
Georgia.....	EE	(NA)	South Region.....	GG	GG
Florida.....	31.2	CC	South Atlantic Division.....	GG	GG
East South Central Division.....	256.2	133.3	Virginia.....	GG	GG
Kentucky.....	146.7	GG	West Virginia.....	GG	GG
Tennessee.....	GG	FF	North Carolina.....	FF	FF
Mississippi.....	FF	EE	East South Central Division.....	GG	115.8
West South Central Division.....	1,068.1	702.1	Tennessee.....	GG	FF
Louisiana.....	GG	112.7	Alabama.....	GG	FF
Oklahoma.....	CC	(NA)			
Texas.....	790.4	589.4	POLYAMIDE FIBERS AND NYLON, EXCEPT NON-TEXTILE (28241)		
West Region.....	116.3	51.8	United States.....	1,251.8	1,068.4
Pacific Division.....	GG	51.8	Northeast Region.....	CC	(NA)
Washington.....	AA	(NA)	Middle Atlantic Division.....	CC	(NA)
California.....	114.4	GG	New York.....	CC	(NA)
			Pennsylvania.....	CC	(NA)
THERMOSETTING RESINS AND PLASTICS MATERIALS (28214)			North Central Region.....	EE	(NA)
United States.....	904.9	¹ 544.8	East North Central Division.....	EE	(NA)
Northeast Region.....	313.2	210.4	Ohio.....	EE	(NA)
New England Division.....	104.9	71.3	South Region.....	1,226.7	(NA)
Massachusetts.....	FF	FF	South Atlantic Division.....	984.6	(NA)
Connecticut.....	GG	FF	Delaware.....	GG	(NA)
Middle Atlantic Division.....	208.3	139.2	Virginia.....	338.3	(NA)
New York.....	GG	52.0	North Carolina.....	GG	(NA)
New Jersey.....	GG	62.2	South Carolina.....	279.3	(NA)
Pennsylvania.....	40.2	25.0	Georgia.....	BB	(NA)
North Central Region.....	233.8	142.9	Florida.....	GG	(NA)
East North Central Division.....	205.3	138.0	East South Central Division.....	242.1	(NA)
Ohio.....	95.5	69.2	Tennessee.....	233.0	(NA)
Indiana.....	BB	(NA)	Alabama.....	9.1	(NA)
Illinois.....	29.2	22.2			
Michigan.....	FF	FF			
Wisconsin.....	34.6	24.5			
West North Central Division.....	28.5	4.9			
Minnesota.....	FF	BB			
Iowa.....	AA	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER NONCELLULOSIC SYNTHETIC ORGANIC FIBERS (28242)			OTHER NONCELLULOSIC SYNTHETIC ORGANIC FIBERS (28242)—Continued		
United States.....	1,694.1	905.3	South Region.....	1,674.2	GG
Northeast Region.....	EE	EE	South Atlantic Division.....	GG	561.3
New England Division.....	BB	AA	Delaware.....	BB	(NA)
Massachusetts.....	BB	AA	Maryland.....	EE	EE
Middle Atlantic Division.....	EE	CC	Virginia.....	158.3	147.4
New Jersey.....	AA	(NA)	West Virginia.....	CC	AA
Pennsylvania.....	EE	CC	North Carolina.....	GG	GG
North Central Region.....	AA	BB	South Carolina.....	328.8	GG
East North Central Division.....	AA	BB	Georgia.....	CC	(NA)
Michigan.....	AA	BB	Florida.....	FF	FF
			East South Central Division.....	GG	332.3
			Tennessee.....	GG	GG
			Alabama.....	GG	GG

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available.

¹The 1967 data do not include \$286.6 million of synthetic resins for protective coatings which were reclassified in 1972 to product classes 28213 and 28214.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2821	Plastics materials and resins.....	4,486.4	(NA)	(NA)	(NA)	(NA)	2,784.9	(NA)	(NA)
28213	Thermoplastic resins and plastics materials.....	3,576.8	3,587.3	3,366.5	3,364.8	3,151.7	2,756.2	2,003.7	(NA)
28214	Thermosetting resins and plastics materials.....	904.9							
28210	Plastics materials and resins, n.s.k.....	4.7	(NA)	(NA)	(NA)	(NA)	28.7	(NA)	(NA)
28220	Synthetic rubber (vulcanizable elastomers).....	1,288.6	1,153.2	1,113.5	1,157.9	1,092.9	1,004.9	862.3	603.9
2823	Cellulosic manmade fibers.....	684.6	680.1	664.8	757.9	751.6	681.1	648.9	582.9
28231	Acetate yarn.....	295.3	324.0	340.1	368.1	339.8	339.7	250.3	210.7
28232	Rayon yarn, viscose and cuprammonium processes.....	387.8	356.1	324.7	389.8	411.8	340.5	398.6	372.3
28230	Cellulosic manmade fibers, n.s.k.....	1.5	-	-	-	-	.9	-	-
2824	Organic fibers, noncellulosic.....	2,949.1	2,821.3	2,468.4	2,552.0	2,506.4	1,974.1	1,368.3	748.3
28241	Polyamide fibers, nylon, except nontextile monofilaments...	1,251.8	1,172.5	1,096.5	1,215.3	1,297.5	1,068.4	896.1	(NA)
28242	Other noncellulosic synthetic organic fibers.....	1,694.1	1,648.8	1,371.9	1,336.7	1,208.9	905.3	472.2	(NA)
28240	Organic fibers, noncellulosic, n.s.k.....	3.1	-	-	-	-	.4	-	-

- Represents zero. (NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms.)

1972 code	Material	Basis	Unit of measure	1972			
				Consumption of materials received from other establishments		Materials made and consumed in same plant	
				Quantity	Delivered cost (million dollars)		
	INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS						
	Materials, containers, and supplies, total.....			(X)	2,120.0	(X)	
286925	Acrylates and methacrylates, monomers.....	100%.....	Million lb....	789.5	101.6	(D)	
286921	Acrylonitrile.....		..do.....	274.1	30.9	-	
286920	Alcohols, except ethyl.....		Million gal....	490.4	20.1	-	
289501	Carbon black.....		Million lb....	(D)	(D)	-	
286924	Cellulose acetate.....	100%.....	..do.....	(D)	(D)	-	
291171	Extender oils of petroleum origin.....		..do.....	(S)	6.8	(X)	
286923	Formaldehyde.....	37% HCHO...	..do.....	1,362.2	30.8	1,281.9	
284141	Glycerin.....	100%.....	..do.....	26.1	5.7	-	
	Liquefied refinery and petroleum gases:						
291167	Butadiene.....	100%.....	..do.....	344.6	28.1	-	
291165	Ethylene.....	100%.....	..do.....	4,356.7	125.4	(D)	
291168	Other, (including isoprene, propylene, isobutylene, etc.).....		..do.....	1,168.5	48.9	(D)	
286515	Melamine.....	100%.....	..do.....	50.7	8.7	(D)	
286513	Phenol.....	100%.....	..do.....	629.2	43.0	(D)	
286514	Phthalic anhydride.....	100%.....	..do.....	227.2	19.2	(D)	
286935	Plasticizers.....		..do.....	205.9	58.5	(D)	
286933	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.).....			(X)	18.7	-	
284101	Soap and detergents.....		Million lb....	39.9	6.3	-	
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	1,000 s. tons.	3.9	.3	-	
286516	Styrene.....	100%.....	Million lb....	3,122.2	189.1	(D)	
281931	Sulfuric acid, except spent acid.....	100% H ₂ SO ₄ ..	1,000 s. tons.	90.0	1.9	(D)	
282130	Thermoplastic resins, including modified resins.....		Million lb....	534.9	72.9	130.0	
282140	Thermosetting resins.....	Dry.....	..do.....	37.9	13.9	105.5	
287321	Urea.....	100%.....	..do.....	346.9	9.7	-	
286927	Vinyl acetate, monomer.....	100%.....	..do.....	425.3	35.2	(D)	
286928	Vinyl chloride, monomer.....	100%.....	..do.....	2,591.4	124.4	(D)	
261101	Woodpulp (excluding wood flour).....	Air dry.....	1,000 s. tons.	44.1	5.8	(X)	
260091	Paper and paperboard containers.....			(X)	40.3	(X)	
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	1,043.1	(X)	
976000	Materials, containers, and supplies, n.s.k. ¹			(X)	30.7	(X)	
1972 code	Material	Basis	Unit of measure	1972		1967	
				Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2822.--SYNTHETIC RUBBER						
	Materials, containers, and supplies, total.....			(X)	556.5	(X)	483.4
286921	Acrylonitrile.....		Million lb.	74.6	6.4	20.2	2.7
289501	Carbon black.....		..do.....	367.5	29.0	388.7	28.5
291171	Extender oils of petroleum origin.....		..do.....	730.9	14.5	562.1	11.0
291167	Butadiene.....	100%.....	..do.....	2,520.9	205.0	1,825.2	172.1
286933	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.).....			(X)	37.2	(X)	25.3
284101	Soap and detergents.....		Million lb.	133.4	17.7	140.8	15.1
281238	Sodium hydroxide (caustic soda).....	100% NaOH.	1,000s.tons	(X)	(X)	51.9	1.6
286516	Styrene.....	100%.....	Million lb.	632.4	38.5	452.0	38.0
281931	Sulfuric acid, except spent acid.....	100% H ₂ SO ₄	1,000s.tons	80.9	2.1	61.3	1.1
260091	Paper and paperboard containers.....			(X)	9.3	(X)	6.4
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	191.0	(X)	177.1
976000	Materials, containers, supplies, n.s.k. ¹			(X)	5.8	(X)	4.5

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	1972		1967	
				Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2823.--CELLULOSIC MANMADE FIBERS						
	Materials, containers, and supplies, total.....			(X)	264.7	(X)	348.9
261101	Wood pulp.....	Air dry....	1,000 s. tons..	568.9	111.5	692.2	132.2
286921	Acrylonitrile.....	100%.....	Million lb....	(X)	(²)	(X)	(X)
286925	Acrylates and methacrylates, monomers.....	100%.....	..do.....	(X)	(X)	(X)	(X)
286963	Caprolactam.....	100%.....	..do.....	(X)	(X)	(X)	(X)
286965	Glycols.....	100%.....	..do.....	(X)	(²)	(X)	(X)
307981	Polypropylene resins.....	Dry basis..	..do.....	(X)	(X)	(X)	(X)
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	1,000 s. tons..	308.0	12.4	299.7	13.3
281931	Sulphuric acid, except spent acid.....	100% H ₂ SO ₄..	..do.....	483.9	8.4	518.9	10.3
260091	Paper and paperboard containers.....			(X)	5.4	(X)	10.3
286929	Acetic anhydride.....	100%.....	Million lb....	(²)	(²)	108.9	16.3
286914	Hexamethylenedizmine.....	100%.....	..do.....	(X)	(X)	(X)	(X)
970099	All other materials and components, parts, containers, and supplies.....			(X)	126.4	(X)	148.8
976000	Materials, containers, and supplies, n.s.k. ¹			(X)	.6	(X)	17.7
	INDUSTRY 2824.--ORGANIC FIBERS, NONCELLULOSIC						
	Materials, containers, and supplies, total.....			(X)	1,414.4	(X)	717.9
261101	Wood pulp.....	Air dry....	1,000 s. tons..	(X)	(²)	24.5	4.1
286921	Acrylonitrile.....	100%.....	Million lb....	640.0	71.0	394.3	49.2
286925	Acrylates and methacrylates, monomers.....	100%.....	..do.....	27.4	4.4	16.2	3.5
286963	Caprolactam.....	100%.....	..do.....	763.9	141.0	282.8	60.4
286965	Glycols.....	100%.....	..do.....	1,141.9	62.7	287.8	22.4
307981	Polypropylene resins.....	Dry basis..	..do.....	(NA)	(NA)	86.6	20.6
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	1,000 s. tons..	(X)	(²)	(²)	(²)
281931	Sulphuric acid, except spent acid.....	100% H ₂ SO ₄..	..do.....	(X)	(²)	39.1	.7
260091	Paper and paperboard containers.....			(X)	43.4	(X)	22.1
286929	Acetic anhydride.....	100%.....	Million lb....	(X)	(²)	(NA)	(NA)
286915	Hexamethylenediamine.....	100%.....	..do.....	(X)	(²)	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies.....			(X)	1,086.7	(X)	529.9
976000	Materials, containers, and supplies, n.s.k. ¹			(X)	5.2	(X)	5.0

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(S) Withheld because the data did not meet publication standards.

¹This item represents the total cost of materials for establishments that did not report detailed materials data.²Included in code 970099, "All other materials and components, parts, containers, and supplies," to avoid disclosing figures for individual companies.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS					
	Purchased fuels and electric energy.....		(X)	119.9	(X)	(NA)
	Purchased fuels, total.....		(X)	63.5	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	1,419.4	14.5	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	4,886.8	18.6	(NA)	(NA)
291141	Distillate.....	...do.....	1,610.3	7.2	(NA)	(NA)
291151	Residual.....	...do.....	3,276.5	11.4	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	52.3	21.3	(NA)	(NA)
960011	Other fuels.....		(X)	6.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	2.8	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	6,358.4	56.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	411.9	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	45.7	-	(NA)	(NA)
	INDUSTRY 2822.--SYNTHETIC RUBBER					
	Purchased fuels and electric energy.....		(X)	32.2	(X)	24.4
	Purchased fuels, total.....		(X)	18.3	(X)	13.6
121005	Coal.....	1,000 s. tons.....	238.2	2.0	283.9	1.4
331212	Coke.....	...do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	175.6	.8	44.6	.1
291141	Distillate.....	...do.....	162.1	.7	(D)	(D)
291151	Residual.....	...do.....	13.4	.1	(D)	(D)
131300	Natural gas.....	Billion ft³.....	49.0	12.1	36.3	9.1
960011	Other fuels.....		(X)	3.4	(X)	2.4
975000	Fuels, n.s.k.....		(X)	-	(X)	.6
960012	Purchased electric energy.....	Million kWh.....	1,946.5	13.9	1,570.4	10.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	19.2	-	15.8	-
	INDUSTRY 2823.--CELLULOSIC MANMADE FIBERS					
	Purchased fuels and electric energy.....		(X)	38.6	(X)	28.8
	Purchased fuels, total.....		(X)	34.1	(X)	25.1
121005	Coal.....	1,000 s. tons.....	2,440.4	27.3	3,299.6	21.4
331212	Coke.....	...do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	303.8	1.2	120.0	.4
291141	Distillate.....	...do.....	136.9	.7	(D)	(D)
291151	Residual.....	...do.....	166.9	.5	(D)	(D)
131300	Natural gas.....	Billion ft³.....	11.6	4.9	9.7	3.3
960011	Other fuels.....		(X)	-	(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.7	(X)	-
960012	Purchased electric energy.....	Million kWh.....	510.9	4.5	472.7	3.7
	Quantity of electric energy generated less quantity sold....	...do.....	1,306.2	-	1,713.7	-
	Total energy used for heat and power.....	Bil. kWh equiv....	24.0	-	30.7	-
	INDUSTRY 2824.--ORGANIC FIBERS, NONCELLULOSIC					
	Purchased fuels and electric energy.....		(X)	95.8	(X)	41.3
	Purchased fuels, total.....		(X)	57.9	(X)	25.1
121005	Coal.....	1,000 s. tons.....	2,296.8	26.0	1,784.7	13.2
331212	Coke.....	...do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	4,418.1	15.4	756.7	2.4
291141	Distillate.....	...do.....	1,729.5	6.2	330.3	1.3
291151	Residual.....	...do.....	2,688.6	9.2	426.4	1.1
131300	Natural gas.....	Billion ft³.....	41.0	15.6	25.9	8.4
960011	Other fuels.....		(X)	.3	(X)	1.0
975000	Fuels, n.s.k.....		(X)	.6	(X)	.1
960012	Purchased electric energy.....	Million kWh.....	4,843.1	37.9	2,539.2	16.2
	Quantity of electric energy generated less quantity sold....	...do.....	1,527.8	-	1,002.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	43.4	-	26.7	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

Drugs

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EXPLANATORY TEXT

DRUGS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2831—Biological Products

2833—Medicinal Chemicals and Botanical Products*

2834—Pharmaceutical Preparations

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2831.—BIOLOGICAL PRODUCTS

This industry comprises establishments primarily engaged in the production of bacterial and virus vaccine, toxoids and analogous products (such as allergenic extracts), serums, plasmas and other blood derivatives for human or veterinary use. For a detailed list of products of industry 2831, refer to table 6A, product codes 28311 11 to 28315 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Biological Products Industry in 1972 totaled \$360.0 million. This included shipments of biological products (primary products) valued at \$297.1 million, shipments of other products (secondary products) valued at \$42.9 million, and miscellaneous receipts (mainly resales) of \$20.0 million.

Shipments of biological products (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of pharmaceutical preparations at \$27.1 million.

Shipments of biological products (primary products) from establishments classified in industry 2831 in 1972 represented 60 percent (coverage ratio) of these products valued at \$495.2 million shipped by all industries. In 1967, the coverage ratio was 61 percent. Other industries shipping biological products consisted mainly of industry 2834, Pharmaceutical Preparations, (\$186.9 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2831, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 2833.—MEDICINALS AND BOTANICALS (Short Title)

This industry comprises establishments primarily engaged in (1) manufacturing bulk organic and inorganic chemicals and their derivatives and (2) processing (grading, grinding, and milling) bulk botanical drugs and herbs. Establishments primarily engaged in manufacturing agar-agar and similar products of natural origin, endocrine products, manufacturing or isolating basic vitamins, and isolating active medicinal principles such as alkaloids from botanical drugs and herbs are also included in this industry. For a detailed list of products of industry 2833, refer to table 6A, product codes 28331 10 to 28332 81.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Medicinals and Botanicals Industry in 1972 totaled \$509.0 million. This included shipments of medicinals and botanicals (primary products) valued at \$401.8 million, shipments of other products (secondary products) valued at \$62.3 million, and miscellaneous receipts (mainly resales) of \$44.9 million.

Shipments of medicinals and botanicals (primary products) in 1972 represented 87 percent (specialization ratio) of the

*Note that the "short title" for this industry is used throughout the report.

industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 71 percent. Secondary products shipped by this industry in 1972 consisted mainly of pharmaceutical preparations (\$30.0 million) and industrial organic chemicals, n.e.c., (\$19.1 million).

Shipments of medicinals and botanicals (primary products) from establishments classified in industry 2833 in 1972 represented 51 percent (coverage ratio) of these products valued at \$793.5 million shipped by all industries. In 1967, the coverage ratio was 56 percent. Other industries shipping medicinals and botanicals consisted mainly of industry 2834, Pharmaceutical Preparations, (\$212.3 million) and industry 2869, Industrial Organic Chemicals, N.E.C., (\$85.9 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2833, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 2834.—PHARMACEUTICAL PREPARATIONS

This industry comprises establishments primarily engaged in manufacturing, fabricating, or processing drugs in pharmaceutical preparations for human or veterinary use. The greater part of the products of these establishments is finished in the form intended for final consumption such as ampoules, tablets, capsules, ointments, medicinal powders, solutions, and suspensions. Products of this industry consist of two important lines, namely: (1) Pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions and

(2) pharmaceutical preparations promoted primarily to the public. For a detailed list of products of industry 2834, refer to table 6A, product codes 28341 11 to 28349 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Pharmaceutical Preparations Industry in 1972 totaled \$7,149.5 million. This included shipments of pharmaceutical preparations (primary products) valued at \$6,085.7 million, shipments of other products (secondary products) valued at \$882.4 million, and miscellaneous receipts (mainly resales) of \$181.4 million.

Shipments of pharmaceutical preparations (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of toilet preparations (\$245.1 million) and medicinals and botanicals (\$212.3 million).

Shipments of pharmaceutical preparations (primary products) from establishments classified in industry 2834 in 1972 represented 97 percent (coverage ratio) of these products valued at \$6,308.3 million shipped by all industries. In 1967, the coverage ratio was also 97 percent. Other industries shipping pharmaceutical preparations consisted mainly of industry 2844, Toilet Preparations, (\$77.7 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2834, these establishments accounted for 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2831.--BIOLOGICAL PRODUCTS															
1972 Census.....	182	62	10.1	102.9	5.4	10.4	40.4	231.4	144.4	360.0	27.2	(NA)	109.6	87	60
1971 ASM.....	(NA)	(NA)	10.0	94.3	5.7	11.1	40.1	192.4	114.6	298.4	18.6	155.7	80.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.3	78.6	5.6	10.6	37.2	164.1	80.7	239.6	32.4	136.9	70.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	8.6	66.9	5.4	10.7	32.3	145.2	69.0	210.6	15.6	118.0	61.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	7.9	59.4	5.0	9.8	27.4	125.4	60.2	176.4	11.5	108.5	56.4	(NA)	(NA)
1967 Census.....	128	44	7.4	53.8	4.8	9.3	25.1	109.2	56.4	160.0	12.1	97.7	46.1	90	61
1966 ASM.....	(NA)	(NA)	5.6	39.6	3.5	7.2	18.4	78.8	36.4	108.4	11.5	(NA)	35.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.2	35.7	3.2	6.4	16.3	64.6	33.7	96.6	6.3	(NA)	28.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	5.6	35.5	3.4	6.6	16.1	63.2	33.6	97.8	6.6	68.0	28.4	(NA)	(NA)
1963 Census.....	113	40	5.8	33.8	3.6	7.2	17.0	60.4	38.2	95.7	10.1	62.3	29.5	88	45
1962 ASM.....	(NA)	(NA)	5.9	32.5	3.8	7.5	16.5	63.5	42.7	103.2	5.7	54.0	27.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	5.7	30.0	3.7	7.1	15.7	65.7	36.8	100.6	5.5	(NA)	27.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	5.4	27.8	3.4	6.8	14.4	59.0	32.9	91.0	5.2	(NA)	25.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	4.1	19.5	2.8	5.6	10.9	46.6	24.1	68.4	(S)	(NA)	16.9	(NA)	(NA)
1958 Census.....	116	35	3.7	16.2	2.6	5.0	9.7	38.9	24.9	63.8	4.6	(NA)	15.0	89	41
INDUSTRY 2833.--MEDICINALS AND BOTANICALS															
1972 Census.....	140	51	7.8	80.8	4.6	8.7	44.9	259.9	251.9	509.0	51.5	(NA)	116.0	87	51
1971 ASM.....	(NA)	(NA)	11.0	110.9	6.5	12.8	61.1	289.0	292.7	570.2	82.5	463.1	153.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	10.1	96.0	6.7	14.4	61.3	288.4	268.9	544.9	48.5	438.5	128.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	9.0	79.8	6.1	12.0	48.9	272.6	220.7	496.0	23.7	291.4	94.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	8.7	73.1	5.8	11.8	45.1	250.7	220.7	460.6	*31.6	275.7	94.1	(NA)	(NA)
1967 Census.....	126	45	8.4	67.1	5.6	11.7	41.4	243.3	206.1	445.2	36.2	262.0	83.5	71	56
1966 ASM.....	(NA)	(NA)	5.2	41.8	3.3	7.1	22.2	149.1	142.0	285.1	17.2	(NA)	53.6	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.2	40.0	3.2	6.9	21.0	126.9	128.7	255.9	9.2	(NA)	47.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	5.8	42.8	3.6	7.7	23.0	113.9	136.4	252.5	8.8	209.9	51.5	(NA)	(NA)
1963 Census.....	138	42	8.1	59.3	5.3	11.1	33.6	151.3	155.5	305.8	14.0	203.2	72.4	71	47
1962 ASM.....	(NA)	(NA)	9.0	63.0	5.7	12.1	34.2	158.9	151.8	295.6	17.9	195.9	68.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	8.6	56.0	5.6	11.5	30.9	156.4	137.2	284.2	15.1	(NA)	61.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.7	78.2	7.3	15.3	40.4	210.2	153.5	351.1	25.4	(NA)	75.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	12.0	78.9	7.7	16.3	42.7	212.4	165.9	369.0	38.0	(NA)	73.8	(NA)	(NA)
1958 Census.....	129	50	10.2	62.9	6.6	13.8	35.5	175.8	148.9	322.3	34.8	(NA)	60.0	72	55
INDUSTRY 2834.--PHARMACEUTICAL PREPARATIONS															
1972 Census.....	756	313	112.0	1,229.7	57.0	113.2	497.7	5,640.7	1,575.8	7,149.5	166.7	(NA)	967.1	87	97
1971 ASM.....	(NA)	(NA)	113.6	1,173.5	57.4	114.4	461.3	5,034.0	1,398.3	6,392.5	195.7	2,428.5	875.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	111.9	1,137.7	59.7	119.9	457.6	4,678.0	1,309.3	5,993.9	250.1	2,223.5	843.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	107.8	996.8	58.9	116.7	412.5	4,444.9	1,179.6	5,565.9	247.6	1,859.0	768.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	102.3	868.7	54.9	109.1	364.6	3,977.2	1,043.2	5,008.3	185.3	1,671.8	630.7	(NA)	(NA)
1967 Census.....	875	318	102.0	821.4	55.2	107.2	338.6	3,720.4	1,013.7	4,696.4	169.6	1,551.4	611.9	87	97
1966 ASM.....	(NA)	(NA)	98.3	761.1	53.6	107.9	327.9	3,446.9	1,018.0	4,432.4	133.8	(NA)	582.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	94.6	701.6	51.4	102.1	299.4	3,172.8	907.4	4,049.7	122.6	(NA)	521.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	90.2	639.8	49.4	99.2	273.8	2,766.2	815.2	3,571.1	102.7	1,242.2	469.0	(NA)	(NA)
1963 Census.....	1,011	319	85.1	580.6	45.9	91.7	246.0	2,595.7	736.5	3,314.3	89.3	1,165.9	428.3	87	94
1962 ASM.....	(NA)	(NA)	91.3	588.7	48.8	94.2	240.7	2,413.5	734.2	3,142.2	71.5	1,096.8	403.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	88.0	549.1	46.5	91.1	225.2	2,223.7	698.6	2,926.6	86.4	(NA)	383.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	86.7	517.6	45.6	88.9	212.9	2,085.2	675.3	2,772.1	85.1	(NA)	357.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	83.7	495.9	45.6	89.4	209.1	2,015.5	685.2	2,692.2	82.8	(NA)	274.7	(NA)	(NA)
1958 Census.....	1,114	318	82.0	466.6	45.7	91.4	205.5	1,881.5	700.6	2,591.8	72.4	(NA)	365.8	87	94

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2831	Industry 2833	Industry 2834
1972.....	158	125	680
1967.....	119	112	791
1963.....	102	122	944

(NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2831.--BIOLOGICAL PRODUCTS											
1972 Census.....	10,156	(NA)	53	1,944	3.88	.40	.69	(NA)	22,844	44	22.25
1971 ASM.....	9,430	15,570	57	1,947	3.61	.38	.70	.52	19,240	49	17.33
1970 ASM.....	8,452	14,720	60	1,893	3.51	.34	.66	.57	17,645	48	15.48
1969 ASM.....	7,779	13,720	63	1,981	3.02	.33	.65	.53	16,884	46	13.57
1968 ASM.....	7,519	13,730	63	1,960	2.80	.34	.68	.62	15,873	47	12.80
1967 Census.....	7,286	13,200	65	1,944	2.69	.35	.69	.61	14,794	49	11.73
1966 ASM.....	7,085	(NA)	63	2,040	2.56	.34	.70	(NA)	14,121	50	10.96
1965 ASM.....	6,836	(NA)	62	1,996	2.53	.35	.72	(NA)	12,357	55	10.06
1964 ASM.....	6,333	12,140	60	1,952	2.44	.34	.71	.70	11,275	56	9.55
1963 Census.....	5,841	10,740	63	1,981	2.36	.40	.75	.65	10,430	56	8.35
1962 ASM.....	5,511	9,150	65	1,952	2.21	.41	.73	.52	10,782	51	8.52
1961 ASM.....	5,266	(NA)	64	1,930	2.22	.37	.66	(NA)	11,542	46	9.28
1960 ASM.....	5,106	(NA)	62	2,017	2.13	.36	.67	(NA)	10,838	47	8.71
1959 ASM.....	4,740	(NA)	68	2,005	1.94	.35	.64	(NA)	11,312	42	8.30
1958 Census.....	4,393	(NA)	70	1,947	1.95	.39	.64	(NA)	10,549	42	7.79
INDUSTRY 2833.--MEDICINALS AND BOTANICALS											
1972 Census.....	10,353	(NA)	60	1,882	5.14	.49	.65	(NA)	33,317	31	29.74
1971 ASM.....	10,070	42,100	58	2,030	4.64	.50	.70	.81	26,579	38	22.61
1970 ASM.....	9,505	43,420	66	2,149	4.26	.49	.67	.80	28,554	33	20.03
1969 ASM.....	8,867	32,380	68	1,967	4.08	.44	.61	.59	30,289	29	22.72
1968 ASM.....	8,402	31,690	67	2,034	3.82	.48	.64	.60	28,816	29	21.25
1967 Census.....	7,956	31,190	66	2,096	3.54	.46	.61	.59	28,830	28	20.83
1966 ASM.....	8,117	(NA)	64	2,155	3.14	.50	.64	(NA)	28,947	28	21.13
1965 ASM.....	7,718	(NA)	63	2,136	3.03	.50	.66	(NA)	24,470	32	18.29
1964 ASM.....	7,414	36,190	62	2,134	3.01	.54	.71	.83	19,726	38	14.88
1963 Census.....	7,299	25,090	66	2,091	3.02	.51	.70	.66	18,614	39	13.59
1962 ASM.....	6,996	21,770	63	2,122	2.83	.51	.73	.66	17,639	40	13.16
1961 ASM.....	6,523	(NA)	65	2,062	2.68	.48	.68	(NA)	18,223	36	13.57
1960 ASM.....	6,703	(NA)	63	2,084	2.64	.44	.66	(NA)	18,025	37	13.73
1959 ASM.....	6,548	(NA)	64	2,110	2.62	.45	.66	(NA)	17,632	37	13.00
1958 Census.....	6,137	(NA)	65	2,080	2.57	.46	.66	(NA)	17,160	36	12.73
INDUSTRY 2834.--PHARMACEUTICAL PREPARATIONS											
1972 Census.....	10,892	(NA)	51	1,986	4.40	.22	.39	(NA)	50,373	22	49.83
1971 ASM.....	10,330	21,380	51	1,993	4.03	.22	.40	.38	44,313	23	44.00
1970 ASM.....	10,167	19,870	53	2,008	3.82	.22	.41	.37	41,805	24	39.02
1969 ASM.....	9,247	17,240	55	1,981	3.54	.21	.39	.33	41,233	22	38.09
1968 ASM.....	8,492	16,340	54	1,987	3.34	.21	.38	.33	38,897	22	36.47
1967 Census.....	8,051	15,210	54	1,939	3.16	.22	.39	.33	36,462	22	34.71
1966 ASM.....	7,741	(NA)	55	2,013	3.04	.23	.40	(NA)	35,058	22	31.93
1965 ASM.....	7,420	(NA)	54	1,988	2.93	.22	.40	(NA)	33,555	22	31.07
1964 ASM.....	7,091	13,770	55	2,007	2.76	.23	.41	.35	30,657	23	27.87
1963 Census.....	6,824	13,700	54	1,996	2.68	.22	.40	.35	30,507	22	28.31
1962 ASM.....	6,451	12,010	53	1,930	2.56	.23	.42	.35	26,448	24	25.63
1961 ASM.....	6,241	(NA)	53	1,961	2.47	.24	.43	(NA)	25,274	25	24.40
1960 ASM.....	5,973	(NA)	53	1,947	2.40	.24	.43	(NA)	24,062	25	23.47
1959 ASM.....	5,923	(NA)	54	1,962	2.34	.25	.44	(NA)	24,073	25	22.55
1958 Census.....	5,690	(NA)	56	1,999	2.25	.27	.45	(NA)	22,945	25	20.59

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ²	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2831-- BIOLOGICAL PRODUCTS													
UNITED STATES.	182	62	10.1	102.9	5.4	10.4	40.4	231.4	144.4	360.0	27.2	7.4	109.2
NORTHEAST REGION	37	13	1.4	14.5	.8	1.4	6.3	33.7	16.6	47.9	5.4	.8	9.3
MIDDLE ATLANTIC DIVISION	34	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW YORK	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.2
NEW JERSEY	15	5	.5	5.8	.3	.4	2.4	14.1	7.6	20.5	(D)	.2	2.0
PENNSYLVANIA	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION	49	22	4.2	43.6	2.0	3.8	15.5	101.0	50.9	145.5	10.2	3.0	47.1
EAST NORTH CENTRAL DIVISION. . .	25	12	2.1	25.9	.9	1.7	8.1	38.1	22.9	57.7	3.4	1.9	25.3
INDIANA	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS	6	4	.3	3.2	.1	.2	.9	7.7	4.3	12.0	(D)	.2	1.3
MICHIGAN	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION. . .	24	10	2.1	17.8	1.1	2.1	7.4	63.0	27.9	87.9	6.8	1.1	21.9
IOWA	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSOURI	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEBRASKA	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	52	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.4
SOUTH ATLANTIC DIVISION.	24	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . E3	22	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	16	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	44	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	28.5
MOUNTAIN DIVISION.	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	35	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	29	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	27.2
2833-- MEDICINALS AND BOTANICALS													
UNITED STATES.	140	51	7.8	80.8	4.6	8.7	44.9	259.9	251.9	509.0	51.5	8.4	243.3
NORTHEAST REGION	57	25	4.4	51.9	2.8	5.4	29.3	140.7	115.1	256.3	42.5	6.0	125.5
MIDDLE ATLANTIC DIVISION	52	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	19	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	20.8
NEW JERSEY	24	10	2.7	32.4	1.7	3.3	18.4	80.8	69.2	151.0	34.4	2.4	62.8
PENNSYLVANIA	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION	41	18	2.5	17.7	1.0	2.1	8.7	58.6	89.0	144.7	3.4	.8	20.5
EAST NORTH CENTRAL DIVISION. . .	23	9	.6	4.9	.4	.5	2.5	13.6	17.0	30.4	(Z)	.5	10.2
ILLINOIS	15	5	.4	3.4	.2	.4	1.8	7.3	7.7	14.9	(D)	.4	6.1
WISCONSIN.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	18	9	1.8	12.8	.7	1.6	6.2	45.0	72.0	114.3	3.4	.3	10.3
MISSOURI	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEBRASKA	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	18	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	92.2
SOUTH ATLANTIC DIVISION.	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
VIRGINIA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	24	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	5.1
PACIFIC DIVISION	20	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA	20	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2834-- PHARMACEUTICAL PREPARATIONS													
UNITED STATES.	756	313	112.0	1 229.7	57.0	113.2	497.7	5 640.7	1 575.8	7 149.5	166.7	102.0	3 720.4
NORTHEAST REGION	279	123	54.4	602.1	29.1	58.1	269.6	3 215.6	838.5	4 022.4	88.2	51.2	2 188.4
NEW ENGLAND DIVISION	47	11	2.2	19.6	1.1	2.0	7.3	67.0	28.0	97.3	2.0	EE	(D)
MASSACHUSETTS.	27	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT.	13	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION	232	112	52.2	482.4	28.0	56.1	262.2	3 148.6	810.5	3 925.1	86.2	FF	(D)
NEW YORK	100	41	15.1	152.3	9.5	18.9	83.3	879.1	252.3	1 124.4	19.4	19.0	664.7
NEW JERSEY	79	48	25.2	291.1	11.4	23.6	109.2	1 402.5	345.7	1 732.0	46.5	19.1	856.8
PENNSYLVANIA	53	23	11.9	139.0	7.0	13.5	69.7	866.7	212.5	1 068.6	20.4	FF	(D)
NORTH CENTRAL REGION	214	85	38.7	459.0	17.3	33.9	159.2	1 693.4	458.9	2 124.2	55.5	36.9	1 175.3
EAST NORTH CENTRAL DIVISION. . .	150	63	35.0	421.7	15.3	30.1	144.8	1 528.8	375.5	1 880.4	48.1	32.6	1 041.2
OHIO	33	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA	21	9	13.4	184.5	4.6	9.2	48.1	677.8	106.0	773.4	16.9	12.1	407.4
ILLINOIS	57	22	11.3	119.7	4.9	9.6	39.4	411.0	115.3	523.3	12.4	10.0	276.4
MICHIGAN	30	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WISCONSIN.	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	10.7
WEST NORTH CENTRAL DIVISION. . .	64	22	3.8	37.3	2.0	3.8	14.3	164.6	83.4	243.8	7.4	4.3	134.1
MINNESOTA.	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.5
IOWA	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSOURI	35	14	2.3	22.8	1.4	2.6	10.0	124.2	65.0	185.6	4.7	2.6	91.8
NEBRASKA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	27.5
KANSAS	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2834-- PHARMACEUTICAL PREPARATIONS--CON.													
SOUTH REGION	149	49	12.4	106.9	6.7	13.3	42.7	522.2	167.4	688.3	13.1	9.8	275.5
SOUTH ATLANTIC DIVISION.	76	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MARYLAND	18	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	15.8
VIRGINIA	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH CAROLINA	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
GEORGIA	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	7.5
FLORIDA	21	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION.	33	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TENNESSEE.	15	7	3.3	27.3	1.7	3.6	11.3	111.2	30.8	139.4	1.7	FF	(D)
MISSISSIPPI.	5	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION.	47	11	1.3	14.4	.5	.8	3.0	34.5	16.4	50.5	2.2	1.2	19.6
LOUISIANA.	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	26	9	1.2	12.4	.4	.7	2.2	31.7	11.7	42.9	1.7	1.1	18.4
WEST REGION.	114	56	6.6	61.8	3.9	7.9	26.4	209.5	111.0	314.5	9.9	4.1	81.1
MOUNTAIN DIVISION.	11	5	.6	3.9	.5	1.1	2.6	13.1	8.1	20.1	1.1	(NA)	(NA)
UTAH	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	103	51	6.0	57.9	3.5	6.8	23.8	196.5	102.8	294.5	8.8	FF	(D)
OREGON	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA	89	46	5.8	56.0	3.3	6.5	23.0	190.2	98.4	284.9	8.7	3.7	75.1

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (2) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of terms)

Item	Biological products (SIC 2831)	Medicinals and botanicals (SIC 2833)	Pharmaceutical preparations (SIC 2834)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	87	87	87
COVERAGE RATIO ² DO	60	51	97
ESTABLISHMENTS, TOTAL NUMBER	182	140	756
WITH 1 TO 19 EMPLOYEES. DO	120	89	444
WITH 20 TO 99 EMPLOYEES DO	37	35	170
WITH 100 EMPLOYEES OR MORE. DO	25	16	143
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	10.1	7.8	112.0
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	102.9	80.8	1 229.7
PRODUCTION WORKERS:			
AVERAGE FOR YEAR. 1,000	5.4	4.6	57.0
MARCH DO	5.3	4.6	57.0
MAY DO	5.3	4.5	56.6
AUGUST DO	5.5	4.7	57.0
NOVEMBER. DO	5.5	4.7	57.5
MAN-HOURS MILLIONS	10.4	8.7	113.2
JANUARY-MARCH DO	2.6	2.2	28.9
APRIL-JUNE. DO	2.6	2.3	28.6
JULY-SEPTEMBER. DO	2.6	2.1	26.9
OCTOBER-DECEMBER. DO	2.6	2.3	28.7
WAGES MILLION DOLLARS	40.4	44.9	497.7
COST OF MATERIALS, ETC., TOTAL. DO	144.4	251.9	1 575.8
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . DO	123.3	207.8	1 372.0
COST OF RESALES DO	15.2	30.4	87.3
FUELS CONSUMED. DO	1.1	8.3	20.8
PURCHASED ELECTRIC ENERGY DO	2.3	4.5	30.2
CONTRACT WORK DO	2.4	.9	65.5
VALUE OF SHIPMENTS, INCLUDING RESALES DO	360.0	509.0	7 149.5
VALUE OF RESALES. DO	19.5	42.0	161.0
VALUE ADDED BY MANUFACTURE. DO	231.4	259.9	5 640.7

See footnotes at end of table.

TABLE 3. Detailed Statistics: 1972—Continued

(See appendix, Explanation of Terms)

Item	Biological products (SIC 2831)	Medicinals and botanicals (SIC 2833)	Pharmaceutical preparations (SIC 2834)
MANUFACTURERS' INVENTORIES:			
BEGINNING OF YEAR, TOTAL	93.3	111.7	990.5
FINISHED PRODUCTS	32.3	51.9	326.3
WORK IN PROCESS	35.9	26.6	225.3
MATERIALS, SUPPLIES, FUEL, ETC.	15.6	33.1	338.5
END OF YEAR, TOTAL	109.6	116.0	967.1
FINISHED PRODUCTS	42.3	51.6	373.7
WORK IN PROCESS	41.6	29.3	245.4
MATERIALS, SUPPLIES, FUEL, ETC.	25.3	34.6	347.9
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL	31.1	51.5	174.2
NEW PLANT AND EQUIPMENT, TOTAL	27.2	51.5	166.7
NEW STRUCTURES AND ADDITIONS TO PLANT	15.1	10.3	59.2
NEW MACHINERY AND EQUIPMENT	12.0	40.7	107.5
USED PLANT AND EQUIPMENT	4.0	.1	7.5

¹The proportion of product shipments both primary and secondary of the industry represented by primary products.

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
2831-- BIOLOGICAL PRODUCTS											
ESTABLISHMENTS, TOTAL	182	10.1	102.9	5.4	10.4	40.4	231.4	144.4	360.0	27.2	109.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	60	.1	1.1	.1	.1	.5	2.6	1.6	4.2	.5	.9
5 TO 9 EMPLOYEES E4	24	.1	1.4	.1	.2	.7	3.5	2.2	5.5	.3	1.2
10 TO 19 EMPLOYEES E2	36	.5	4.0	.4	.7	2.3	10.3	6.1	16.0	1.2	2.8
20 TO 49 EMPLOYEES	27	.8	7.1	.5	1.0	3.4	23.1	12.2	31.5	1.4	9.6
50 TO 99 EMPLOYEES	10	.6	4.7	.3	.7	2.3	13.3	5.4	18.5	1.0	4.5
100 TO 249 EMPLOYEES	13	2.2	20.8	1.2	2.3	10.8	66.2	32.3	93.6	10.4	23.9
250 TO 499 EMPLOYEES	9	5.7	63.8	2.7	5.4	20.5	112.4	84.5	190.7	12.3	66.7
500 TO 999 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
1,000 TO 2,499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	63	.2	1.7	.1	.2	.8	4.1	2.1	6.3	.8	1.9
2833-- MEDICINALS AND BOTANICALS											
ESTABLISHMENTS, TOTAL	140	7.8	80.8	4.6	8.7	44.9	259.9	251.9	509.0	51.5	116.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	48	.1	.7	.1	.1	.4	1.7	1.8	3.5	.2	.7
5 TO 9 EMPLOYEES E1	17	.1	1.0	.1	.1	.5	3.6	7.8	11.3	.2	1.6
10 TO 19 EMPLOYEES E1	24	.3	3.3	.2	.4	1.6	8.2	14.6	22.6	.6	2.9
20 TO 49 EMPLOYEES	27	.8	7.1	.5	1.1	3.9	23.7	57.6	81.1	1.3	8.7
50 TO 99 EMPLOYEES	8	.5	5.1	.4	.6	2.6	12.9	14.4	27.1	1.1	4.7
100 TO 249 EMPLOYEES	9	1.6	17.0	1.0	1.7	9.3	67.5	54.9	120.7	5.7	21.3
250 TO 499 EMPLOYEES	5	4.3	46.4	2.4	4.7	26.5	142.4	100.8	242.6	42.5	76.3
1,000 TO 2,499 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	36	.1	.6	.1	.1	.4	1.8	1.8	3.6	.2	.8
2834-- PHARMACEUTICAL PREPARATIONS											
ESTABLISHMENTS, TOTAL	756	112.0	1 229.7	57.0	113.2	497.7	5 640.7	1 575.8	7 149.5	166.7	967.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	313	.4	4.7	.3	.5	1.9	17.6	5.1	22.6	1.1	3.2
5 TO 9 EMPLOYEES E8	66	.4	3.7	.2	.4	1.5	16.0	5.3	21.2	.6	3.8
10 TO 19 EMPLOYEES E2	65	.9	7.7	.5	1.1	3.4	23.1	13.6	37.6	1.3	5.0
20 TO 49 EMPLOYEES E1	113	3.6	29.1	2.3	4.6	13.2	90.4	49.9	138.8	5.6	22.6
50 TO 99 EMPLOYEES E1	56	4.1	33.5	2.3	4.6	13.8	123.9	66.1	187.5	7.6	30.5
100 TO 249 EMPLOYEES	55	8.5	70.1	5.1	9.7	31.5	273.1	150.7	415.5	16.1	62.3
250 TO 499 EMPLOYEES	40	14.7	139.7	8.8	17.4	69.6	996.4	301.2	1 284.2	24.1	158.8
500 TO 999 EMPLOYEES	24	17.7	179.8	9.9	19.5	78.2	1 011.3	267.8	1 273.1	17.2	138.6
1,000 TO 2,499 EMPLOYEES	16	27.0	303.1	13.5	26.3	133.8	1 586.0	394.1	1 957.4	47.1	269.7
2,500 EMPLOYEES OR MORE	1	34.8	458.2	14.0	29.1	150.8	1 502.9	322.2	1 811.4	46.2	272.5
ESTABS. COVERED BY ADMIN. RECORD ¹ .	282	.5	5.8	.3	.6	2.3	21.6	5.9	27.5	1.0	3.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown.

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

D¹ Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above.

²Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2831	BIOLOGICAL PRODUCTS										
	ENTIRE INDUSTRY	182	10.1	102.9	5.4	10.4	40.4	231.4	144.4	360.0	27.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	172	8.6	88.5	4.6	8.9	35.4	186.0	123.2	296.0	21.9
28311	BLOOD AND BLOOD DERIVATIVES, FOR HUMAN USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	24	2.6	29.7	1.4	2.9	11.3	52.0	45.0	91.1	7.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28312	VACCINES AND ANTIGENS, FOR HUMAN USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	6	.7	7.8	.5	.9	4.8	12.2	8.4	19.9	3.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28313	ANTITOXINS, THERAPEUTIC IMMUNE SERUMS, HUMAN USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28314	DIAGNOSTIC SUBSTANCES, OTHER BIOLOGICS, HUMAN USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	33	3.1	27.4	1.7	3.2	12.0	84.5	52.2	130.6	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	28	3.0	26.4	1.6	3.1	11.8	82.7	50.9	127.5	5.6
28315	BIOLOGICAL PREPARATIONS FOR VETERINARY USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	29	2.8	29.7	1.4	2.6	9.4	63.4	29.2	89.9	7.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	23	.9	7.8	.6	1.2	4.2	26.7	10.7	37.1	3.6
2833	MEDICINALS AND ROTANICALS										
	ENTIRE INDUSTRY	140	7.8	80.8	4.6	8.7	44.9	259.9	251.9	509.0	51.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	122	5.4	62.0	3.5	6.6	35.0	203.3	196.7	400.4	48.0
28331	SYNTHETIC ORGANIC MEDICINAL CHEMICALS, IN BULK (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	38	4.0	49.7	2.6	5.2	28.2	181.0	157.7	340.9	46.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28332	MEDICINAL CHEM., BOTANICAL PROD., BULK, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	37	3.5	28.0	1.8	3.1	14.8	71.6	87.4	153.9	4.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	20	.7	1.2	.4	.8	3.6	16.4	26.0	42.4	1.1
2834	PHARMACEUTICAL PREPARATIONS										
	ENTIRE INDUSTRY	756	112.0	1 229.7	57.0	113.2	497.7	5 640.7	1 575.8	7 149.5	166.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	706	86.4	967.3	44.0	87.4	390.6	4 504.7	1 212.1	5 664.2	134.3
28341	PHARM PREP--NEOPLASM, ENDOCRINE, METABOLIC, HUMAN (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	22	7.1	80.1	4.1	8.1	40.9	428.6	149.9	574.5	17.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	4	.3	2.8	.2	.5	2.2	20.3	11.6	30.6	(D)
28342	PHARM PREP--NERVOUS SYSTEM, SENSE ORGANS (HUMAN) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	63	31.8	378.8	14.5	29.5	138.9	2 049.2	426.1	2 458.2	50.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	18	2.8	28.6	1.4	2.6	10.0	117.8	28.0	144.6	2.9
28343	PHARM PREP--CARDIOVASCULAR SYSTEM (HUMAN USE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	13	2.7	29.2	.6	1.1	4.0	125.2	21.9	144.0	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28344	PHARM PREP--RESPIRATORY SYSTEM (HUMAN USE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	25	5.3	58.7	2.0	4.1	15.5	265.2	72.8	336.2	5.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28345	PHARM PREP--DIGESTIVE, GENITO-URINARY (HUMAN USE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	46	11.2	110.2	5.7	11.0	45.2	556.4	147.7	696.3	12.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	26	3.1	34.1	1.6	3.1	13.2	194.3	43.8	237.9	3.9
28346	PHARM PREP--SKIN PREPARATIONS (HUMAN USE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	49	3.6	28.8	1.9	3.9	11.6	145.9	53.7	197.6	3.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	26	1.2	11.1	.7	1.5	4.2	38.1	14.2	51.6	1.1
28347	VITAMIN, NUTRIENT, HEMATINIC PREP., HUMAN USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	91	22.6	221.7	12.6	25.0	96.9	687.7	310.0	992.7	26.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	51	6.3	53.6	4.5	9.0	31.2	146.8	122.7	269.9	9.6
28348	PHARM PREP--PARASITIC, INFECTIVE DISEASES (HUMAN) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	22	22.4	276.9	12.6	25.4	125.7	1 223.4	309.9	1 515.4	35.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	8	3.3	34.3	1.9	4.0	15.8	102.9	35.1	138.8	5.4
28349	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	34	2.9	28.4	1.4	2.6	9.2	90.8	57.8	144.1	3.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	24	1.3	12.6	.7	1.4	4.7	48.0	32.5	77.5	1.3

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
2831	Biological products.....1972..	360.0	297.1	42.9	20.0	87	495.2	297.1	198.1	60
	.....1967..	160.0	134.4	14.6	11.1	90	220.6	134.4	86.2	61
2833	Medicinals and botanicals.....1972..	509.0	401.8	62.3	44.9	87	793.5	401.8	391.7	51
	.....1967..	445.2	329.7	89.6	25.9	71	593.8	329.7	264.1	56
2834	Pharmaceutical preparations.....1972..	7,149.5	6,085.7	882.4	181.4	87	6,295.4	6,085.7	209.7	97
	.....1967..	4,696.4	3,994.3	601.1	101.0	87	4,139.7	3,994.3	145.4	97

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 5A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Biological products (SIC 2831)	Medicinals and botanicals (SIC 2833)	Pharmaceutical preparations (SIC 2834)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	360.0	509.0	7,149.5	(X)
2831-	Biological products.....	495.2	297.1	(under 2)	186.9	(5-10)
28311	Blood and blood derivatives for human use.....	125.9	64.6	-	(50-100)	(under 2)
28312	Vaccines and antigens for human use.....	70.5	13.8	-	56.8	-
28313	Antitoxins, toxoids, and toxins for immunization, and therapeutic immune serums for human use.....	18.3	9.8	-	(5-10)	(under 2)
28314	Diagnostic substances and other biologics, for human use.....	192.5	135.9	-	48.8	6.1
28315	Other medicinal chemicals and botanical products in bulk, n.e.c.....	74.1	59.4	(under 2)	(10-15)	-
28310	Biological products, n.s.k.....	13.8	(10-15)	-	-	(under 2)
2833-	Medicinals and botanicals.....	793.5	(under 2)	401.8	212.3	(100-200)
28331	Synthetic organic medicinal chemicals in bulk.....	635.6	(under 2)	292.7	186.8	(100-200)
28332	Other medicinal chemicals and botanical products in bulk, n.e.c.....	144.0	(under 2)	96.3	25.5	(20-50)
28330	Medicinal chemicals and botanical products, n.s.k.....	14.0	(under 2)	12.8	-	(under 2)
2834-	Pharmaceutical preparations.....	6,295.4	27.1	30.0	6,085.7	152.6
28341	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	615.4	(under 2)	(under 2)	614.4	(under 2)
28342	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use.....	1,638.1	-	(under 2)	(1,000-2,000)	(20-50)
28343	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	383.1	(under 2)	(under 2)	379.6	(2-5)
28344	Pharmaceutical preparations acting on the respiratory system, for human use.....	579.9	-	(2-5)	(500-1,000)	(5-10)
28345	Pharmaceutical preparations acting on the digestive or the genito-urinary system, for human use.....	764.0	-	(under 2)	(500-1,000)	(20-50)
28346	Pharmaceutical preparations acting on the skin, for human use.....	348.5	-	(under 2)	301.2	(20-50)
28347	Vitamin, nutrient, and hematonic preparations, for human use.....	690.5	(under 2)	(under 2)	681.6	(5-10)
28348	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	949.0	(under 2)	(under 2)	942.2	(5-10)
28349	Pharmaceutical preparations, for veterinary use.....	240.3	25.6	(20-50)	180.6	(10-20)
28340	Pharmaceutical preparations, except biologicals, n.s.k.....	86.6	(under 2)	.4	82.9	(2-5)
	Other product shipments by 4-digit product group:					
2048-	Prepared feeds, n.e.c.....	(X)	-	(under 2)	(2-5)	(X)
2067-	Chewing gum.....	(X)	-	-	(over 2)	(X)
2087-	Flavoring extracts and sirups, n.e.c.....	(X)	-	.5	3.8	(X)
2099-	Food preparations, n.e.c.....	(X)	-	-	3.0	(X)
2647-	Sanitary paper products.....	(X)	-	.6	5.2	(X)
2841-	Soap and other detergents.....	(X)	-	.6	5.2	(X)
2842-	Polishes and sanitation goods.....	(X)	-	(under 2)	5.0	(X)
2843-	Surface active agents.....	(X)	(under 2)	(over 2)	-	(X)
2844-	Toilet preparations.....	(X)	(under 2)	(under 2)	245.1	(X)
2865-	Cyclic crudes and intermediates.....	(X)	(under 2)	3.4	2.6	(X)
2869-	Industrial organic chemicals, n.e.c.....	(X)	3.8	19.1	47.1	(X)
2879-	Agricultural chemicals, n.e.c.....	(X)	(under 2)	-	16.2	(X)
2899-	Chemical preparations, n.e.c.....	(X)	-	(under 2)	15.4	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Biological products (SIC 2831)	Medicinals and botanicals (SIC 2833)	Pharmaceutical preparations (SIC 2834)	Other industries
Shipments and miscellaneous receipts--Continued						
Other product shipments by 4-digit product group:						
3069-	Fabricated rubber products, n.e.c.....	(X)	-	-	(2-5)	(X)
3079-	Miscellaneous plastics products.....	(X)	-	-	(over 2)	(X)
3231-	Products of purchased glass.....	(X)	(over 2)	-	-	(X)
3811-	Engineering and scientific instruments.....	(X)	-	(under 2)	(over 2)	(X)
3841-	Surgical and medical instruments.....	(X)	4.5	-	75.0	(X)
3842-	Surgical appliances and supplies.....	(X)	(under 2)	(under 2)	3.2	(X)
3999-	Manufacturing industries, n.e.c.....	(X)	-	-	4.0	(X)
	Other industries.....	(X)	(under 2)	2.1	8.1	(X)
Miscellaneous receipts.....						
93000	Contract work.....	(X)	20.0	44.9	181.4	(X)
99989	Resales.....	(X)	.2	2.5	161.0	(X)
99980	Other miscellaneous receipts.....	(X)	19.5	42.0	2.5	(X)
			.2	.4	17.8	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries	
Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued			
2831-	3841 Surgical and medical instruments.....	(over 2)	2834-	2023 Condensed and evaporated milk.....	(2-5)	
				2046 Wet corn milling.....	(2-5)	
2833-	2048 Prepared feeds, n.e.c.....	(over 2)		2048 Prepared feeds, n.e.c.....	(5-10)	
	2095 Roasted coffee.....	(over 2)		2067 Chewing gum.....	(over 2)	
	2819 Industrial inorganic chemicals, n.e.c.....	3.9		2841 Soap and other detergents.....	5.5	
	2821 Plastics materials and resins.....	(10-20)		2842 Polishes and sanitation goods.....	8.8	
	2822 Synthetic rubber.....	(over 2)		2843 Surface active agents.....	(over 2)	
	2865 Cyclic crudes and intermediates.....	32.6		2844 Toilet preparations.....	77.7	
	2869 Industrial organic chemicals, n.e.c.....	85.9		2879 Agricultural chemicals, n.e.c.....	(2-5)	
	2879 Agricultural chemicals, n.e.c.....	(10-20)		3842 Surgical appliances and supplies.....	(20-50)	

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Value of Shipments by All Producers: 1972 and 1967

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)							
		1972	1967						
2831- --	BIOLOGICAL PRODUCTS, TOTAL.....	495.2	220.6						
	Biological Products for Human Use.....	407.3	167.1						
28311 11	Blood and blood derivatives.....	125.9	35.9						
28312 11	Vaccines and antigens.....	70.5	36.6						
28313 11	Antitoxins, toxoids, and toxins for immunization and therapeutic immune serums.....	18.3	12.7						
28314 11	Diagnostic substances and other biologics, including allergenic extracts, poison ivy and poison oak extracts, etc.....	192.5	81.9						
28315 --	Biological Preparations For Veterinary Use.....	74.1	47.9						
28315 13	Vaccines and viruses.....	45.7	34.1						
28315 23	Bacterins and mixed bacterins.....	15.0	5.1						
28315 33	Serums.....	4.2	5.9						
28315 98	Other biologics, including antitoxins, toxoids, and diagnostics.....	7.6	2.7						
28315 00	Biological preparations for veterinary use, n.s.k.....	1.6	-						
28310 00	Biological products, n.s.k., for companies with 10 employees or more. (See note.).....	13.8	3.6						
28310 02	Biological products, n.s.k., for companies with less than 10 employees. (See note.).....		2.1						
2833- --	MEDICINALS AND BOTANICALS, TOTAL.....	793.5	593.8						
28331 --	Synthetic Organic Medicinal Chemicals, in Bulk ¹	635.6	503.7						
28331 10	Antibiotics, including all such uses as veterinary, food supplements, food preservation, crop spraying, etc., but excluding antibiotic preparations.....	238.9	191.6						
28331 20	Other synthetic organic medicinal chemicals, except antibiotics.....	392.9	312.1						
28331 00	Synthetic organic medicinal chemicals, in bulk, n.s.k.....	3.8	-						
28332 --	Other Medicinal Chemicals and Botanical Products, in Bulk, N.E.C.....	144.0	80.1						
28332 13	Botanical drugs.....	16.4	21.0						
28332 21	Naturally occurring vitamins (from yeast, plants, fish, liver, etc.).....	33.6	10.9						
28332 41	Drugs of animal origin, including dried glands and other animal organs, and tissue and extractions thereof.....	6.1	9.2						
28332 61	Other organic medicinal chemicals.....	63.2	32.4						
28332 81	Inorganic medicinal chemicals.....	23.1	5.5						
28332 00	Other medicinal chemicals and botanical products, in bulk, n.e.c., n.s.k.....	1.6	1.1						
28330 00	Medicinal chemical and botanical products, n.s.k., for companies with 10 employees or more. (See note.)	11.4	8.4						
28330 02	Medicinal chemical and botanical products, n.s.k., for companies with less than 10 employees. (See note.)	2.6	1.6						
		1972 shipment values (million dollars)			1967 shipment values (million dollars)				
	Product	Total	Domestic shipments		Export shipments including those to foreign subsidi- aries	Total	Domestic shipments		Export shipments including those to foreign subsidi- aries
			Ethical	Proprietary			Ethical	Proprietary	
2834- --	PHARMACEUTICAL PREPARATIONS:								
	As reported in the census of manufactures ²	6,295.4	(NA)	(NA)	(NA)	4,139.7	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G ²	6,052.9	4,409.4	1,513.0	130.6	4,140.0	2,942.5	1,082.0	115.5
28341 --	Pharmaceutical Preparations Affecting Neoplasms, Endocrine System, and Metabolic Diseases, for Human Use:								
	As reported in census of manufactures ²	615.4	(NA)	(NA)	(NA)	420.2	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G ²	615.0	604.6	(X)	25.6	442.2	427.6	(X)	14.7
	Hormones and synthetic substitutes, total.....	550.7	533.2	(X)	17.5	416.3	(X)	(X)	(X)
	Corticoids:								
28341 11	Systemic.....	94.0	87.5	(X)	6.5	74.7	69.7	(X)	5.0
28341 15	Local and topical, including anti-infective combinations..	91.7	87.6	(X)	4.1	55.5	53.8	(X)	1.7
28341 17	Androgens.....	9.3	(D)	(X)	(D)	6.1	(D)	(X)	(D)
28341 19	Estrogens.....	65.2	64.4	(X)	.8	41.2	40.2	(X)	1.0
28341 21	Insulin and antidiabetic agents.....	132.7	130.5	(X)	2.2	97.0	95.9	(X)	1.1
28341 25	ACTH.....	4.6	(D)	(X)	(D)	4.3	(D)	(X)	(D)
	Progestogens (excluding premenstrual tension preparations, see code 28345 85):								
28341 27	Oral contraceptive preparations.....	110.8	108.5	(X)	2.2	103.5	102.7	(X)	.8
28341 29	Other.....	9.6	(D)	(X)	(D)	6.0	5.8	(X)	.1
28341 31	Sex hormone combinations (except progestogen combinations)..	(³)	(³)	(X)	(³)	6.8	6.7	(X)	.1
28341 35	Thyroid and antithyroid preparations, including iodides....	16.6	16.4	(X)	.2	14.0	13.9	(X)	.1
28341 37	Anabolic agents.....	4.0	4.0	(X)	(Z)	5.1	5.0	(X)	.1
28341 39	Other hormone preparations.....	12.2	³ 11.1	(X)	1.1	2.1	(D)	(X)	(D)
	Antineoplastic agents:								
28341 43	Radioactive isotopes for internal use.....	47.3	(D)	(X)	(D)	16.1	14.5	(X)	1.5
28341 45	Specific antineoplastic agents.....								
28341 98	Other pharmaceutical preparations affecting neoplasms, the endocrine system and metabolic diseases.....	16.5	(D)	(X)	(D)	9.8	(D)	(X)	(D)
28341 00	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use, n.s.k.....	.5	.5	(X)	-				

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972 shipment values (million dollars)				1967 shipment values (million dollars)			
		Total	Domestic shipments		Export shipments including those to foreign subsidi- aries	Total	Domestic shipments		Export shipments including those to foreign subsidi- aries
			Ethical	Proprietary			Ethical	Proprietary	
2834- --	PHARMACEUTICAL PREPARATIONS--Continued								
28342 --	Pharmaceutical Preparations Acting on the Central Nervous System and the Sense Organs, for Human Use:								
	As reported in census of manufactures.....	1,638.1	(NA)	(NA)	(NA)	1,137.1	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	1,635.6	1,229.5	391.8	14.3	1,132.0	793.0	325.8	13.2
28342 11	Parasympathomimetic agents (except miotics and mydriatics)....	(4)	(4)	(X)	(4)	(4)	(4)	(X)	(X)
28342 13	Skeletal muscle relaxants.....	31.5	30.9	(X)	.6	21.8	21.4	(X)	.5
	Internal analgesics and antipyretics:								
28342 21	Narcotic.....	92.3	92.1	(X)	.2	40.3	40.2	(X)	.1
	Nonnarcotic, total.....	575.1	237.3	334.0	3.7	449.4	(*)	(*)	(*)
28342 23	Salicylates, including acetylsalicylic acid.....	97.4	(D)	93.3	(D)	87.2	4.0	82.6	.6
28342 25	Aspirin combinations.....	209.6	(D)	173.3	(D)	170.5	(D)	141.8	(D)
28342 27	Anti-arthritis (nonhormonal).....	93.4	(D)	(D)	(D)				
28342 29	Other internal analgesics and antipyretics, including effervescent types, and suppositories.....	174.7	110.4	(D)	(D)	191.7	(D)	(D)	(D)
28342 41	Anticonvulsants, except phenobarbital.....	(5)	(5)	(X)	(5)	15.1	(D)	(X)	(D)
	Psychotherapeutic agents:								
28342 51	Antidepressants.....	67.0	(D)	(X)	(D)	45.0	44.8	(X)	.3
	Tranquilizers:								
28342 55	Phenothiazine derivatives.....	121.7	120.8	(X)	.9	116.0	115.1	(X)	.9
28342 57	Other tranquilizers.....					205.5	204.0	(X)	1.4
28342 59	Other psychotherapeutic agents.....	405.3	404.7	(X)	.6	.7	(D)	(X)	(D)
	Central nervous system (CNS) stimulants (respiratory and cerebral stimulants, including sympathomimetic agents employed mainly as CNS stimulants) (excluding nondrug dietaries for weight control):								
28342 61	Amphetamines.....	31.7	31.3	(X)	.3	56.4	55.8	(X)	.6
28342 63	Anorexiants, except amphetamines.....	37.7	34.6	(D)	(D)	23.6	22.4	(D)	(D)
28342 69	Other CNS stimulants.....	3.5	(D)	(D)	-	.4	.4	-	(X)
	Sedatives and hypnotics:								
	Ethical:								
28342 71	Barbiturates.....	23.8	23.6	(X)	.2	25.4	24.1	(X)	.3
28342 75	Nonbarbiturates.....	38.7	(D)	(X)	(D)	17.3	17.1	(X)	.2
	Proprietary preparations:								
28342 77	Sleep inducers.....	18.8	(X)	(D)	(D)	14.9	(X)	(D)	(D)
28342 79	Calming agents.....	3.8	(X)	(D)	(D)	3.2	(X)	(D)	(D)
	Anesthetics (except urinary tract anesthetics and skin preparations used as antipruritics):								
28342 81	Local and topical.....	19.0	18.6	.3	.2	15.9	15.2	.4	.4
28342 85	General.....	39.2	36.8	(D)	(D)	31.5	(D)	(D)	.7
	Eye and ear preparations (excluding anti-infectives, corticoids and antibacterials and antiseptics):								
28342 91	Mydriatics and miotics.....	15.1	14.3	.2	.6	9.5	8.7	.1	.8
28342 95	Other eye and ear preparations, including contact lens solutions.....	44.2	19.0	23.8	1.3	19.1	5.3	13.3	.6
28342 98	Other pharmaceutical preparations acting on the central nervous system and the sense organs.....	4 565.0	4 555.7	5.9	4 53.4				
28342 00	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use, n.s.k.....	2.3	1.0	(D)	(D)	422.5	417.0	4.9	.6
28343 --	Pharmaceutical Preparations Acting on the Cardiovascular System, for Human Use:								
	As reported in census of manufactures.....	383.1	(NA)	(NA)	(NA)	207.5	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	399.6	394.2	(X)	5.3	214.0	211.2	(X)	2.7
28343 11	Anticoagulants.....	17.3	17.2	(X)	.1	12.1	12.0	(X)	(Z)
28343 21	Hemostatics.....	7.4	7.2	(X)	.2	6.5	6.2	(X)	.3
28343 31	Digitalis preparations.....	7.9	7.9	(X)	(Z)	7.4	7.3	(X)	(Z)
	Hypotensives, total.....	175.8	173.1	(X)	2.7	103.5	(*)	(X)	(*)
28343 41	Rauwolfia-diuretic combinations.....	69.4	(D)	(X)	(D)	51.2	51.1	(X)	.1
28343 45	Rauwolfia.....	11.0	11.0	(X)	(Z)	12.7	12.7	(X)	-
28343 49	Other hypotensives.....	95.5	(D)	(X)	(D)	39.6	(D)	(X)	(D)
	Vasodilators:								
28343 51	Coronary.....	79.5	78.2	(X)	1.3	44.3	43.3	(X)	.9
28343 55	Peripheral.....	45.8	45.6	(X)	.2	19.3	19.1	(X)	.2
28343 98	Other pharmaceutical preparations acting on the cardiovascular system, including vasopressors, antiarrhythmics, and antiheparin agents.....	65.1	64.3	(X)	.7	20.0	19.4	(X)	.6
28343 00	Pharmaceutical preparations acting on the cardiovascular system, for human use, n.s.k.....	.8	(D)	(X)	(D)	.9	(D)	(X)	(D)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972 shipment values (million dollars)				1967 shipment values (million dollars)			
		Total	Domestic shipments		Export shipments including those to foreign subsidi- aries	Total	Domestic shipments		Export shipments including those to foreign subsidi- aries
			Ethical	Proprietary			Ethical	Proprietary	
2834- --	PHARMACEUTICAL PREPARATIONS--Continued								
28344 --	Pharmaceutical Preparations Acting on the Respiratory System, for Human Use:								
	As reported in census of manufactures.....	579.9	(NA)	(NA)	(NA)	361.4	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	561.4	279.4	275.4	6.5	364.6	203.5	153.6	7.4
28344 11	Antihistamines, except cold preparations and antiemetics.....	42.7	32.8	(D)	(D)	32.7	28.2	(D)	(D)
28344 15	Bronchial dilators, including antiasthmatics.....	73.8	70.3	2.1	1.4	41.7	38.3	2.8	.6
	Cough preparations and expectorants (containing antitussive or other ingredient intended primarily to treat cough only):								
	Ethical preparations:								
28344 21	Narcotic.....	32.5	32.1	(X)	.4	27.4	27.1	(X)	.3
28344 25	Nonnarcotic.....	28.8	28.5	(X)	.3	15.9	15.7	(X)	.2
	Cold preparations (containing combinations of the following ingredients, (but no antitussive) nasal decongestant, antihistamine, analgesic, bioflavonoid or antibiotic):								
	Ethical preparations.....	99.1	(D)	(X)	(D)	78.9	(*)	(X)	(*)
28344 31	Nasal decongestants.....	71.6	71.0	(X)	.6	52.5	52.0	(X)	.5
28344 35	Antihistamine cold preparations.....	16.3	(D)	(X)	(D)	17.8	(D)	(X)	(D)
28344 39	Other ethical cold preparations.....	11.2	(D)	(X)	(D)	8.6	(D)	(X)	(D)
28344 41	Cough and cold combinations (ethical).....	9.1	9.0	(X)	.1	7.3	7.2	(X)	.1
	Cough and cold preparations (proprietary).....	263.0	(X)	(D)	(D)	148.3	(X)	(*)	(*)
	Decongestants (including corticoid decongestants):								
28344 51	Nasal sprays.....	34.2	(X)	(D)	(D)	17.1	(X)	17.0	.1
28344 55	Nose drops.....	1.7	(X)	(D)	(D)	3.3	(X)	3.2	.1
28344 59	Other decongestants.....	9.2	(X)	9.0	.2	6.4	(X)	6.1	.3
28344 61	Cough syrups.....	65.5	(X)	(D)	(D)	44.5	(X)	43.7	.8
28344 63	Capsules and tablets.....	71.0	(X)	(D)	(D)	38.3	(X)	38.1	.2
28344 65	Lozenges.....	(⁶)	(X)	(⁶)	(⁶)	14.8	(X)	(D)	(D)
28344 67	Topical preparations.....	.3	(X)	.3	-	.9	(X)	(D)	(D)
28344 71	Cough drops.....	(⁶)	(X)	(⁶)	(⁶)				
28344 79	Other proprietary cough and cold preparations.....	681.1	(X)	680.0	61.1	23.1	(X)	(D)	(D)
28344 98	Other pharmaceutical preparations acting on the respiratory system.....	12.2	(D)	(D)	(D)	10.5	9.1	1.1	.3
28344 00	Pharmaceutical preparations acting on the respiratory system, for human use, n.s.k.....					1.9	(D)	(D)	(D)
28345 --	Pharmaceutical Preparations, Acting on the Digestive or the Genito-Urinary Systems, for Human Use:								
	As reported in census of manufactures.....	764.0	(NA)	(NA)	(NA)	552.1	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	746.1	543.7	189.0	13.4	551.5	392.2	145.7	13.6
	Digestive system preparations:								
28345 11	Enzymes.....	12.7	11.6	.4	.7	13.5	12.1	.1	1.3
28345 15	Antacids, including acid neutralizing products with coating functions, but excluding effervescent salicylate products classified as analgesics.....	181.5	112.1	65.5	3.8	137.3	68.9	64.5	3.9
28345 19	Antidiarrheals.....	42.5	15.7	(D)	(D)	41.3	16.5	(D)	(D)
	Laxatives, total.....	131.1	62.0	68.3	.8	79.0	(*)	(*)	(*)
28345 21	Irritants.....	41.3	12.5	28.6	.2	29.8	9.1	20.1	.6
28345 23	Bulk producing.....	25.9	21.7	(D)	(D)	21.5	(D)	(D)	.2
28345 25	Fecal softeners.....	43.4	19.5	(D)	(D)	10.0	8.2	(D)	(D)
28345 27	Emollients.....	5.1	(D)	3.5	(D)	3.9	(D)	3.4	(D)
28345 28	Saline.....	15.3	(D)	8.4	(D)	8.6	(D)	7.8	(D)
28345 29	Enema specialties.....					5.2	(D)	(D)	(Z)
28345 31	Digestants.....	3.8	3.7	(D)	(D)	1.2	1.1	(D)	(D)
28345 33	Bile therapy preparations, including bile products, choleretics and chologogues.....	5.7	5.2	.1	.3	4.2	4.0	.1	.1
28345 35	Antinauseants-motion sickness remedies (antiemetics), including antihistaminic antiemetic preparations.....	33.7	33.5	(D)	(D)	24.6	24.3	.1	.2
28345 37	Lipotropics and cholesterol reducers.....	5.9	5.7	(D)	(D)	6.3	6.0	(D)	(D)
	Antispasmodics and anticholinergics, total.....	77.8	75.8	(X)	2.0	66.4	(*)	(*)	(*)
28345 41	Synthetics.....	16.1	14.5	(X)	1.6	22.9	(D)	(X)	(D)
28345 43	Ataractic combinations.....	37.2	(D)	(X)	(D)	22.4	22.3	(X)	(Z)
28345 45	Belladonna and derivatives.....	16.8	(D)	(X)	(D)	15.0	14.8	(D)	(D)
28345 49	Other antispasmodics and anticholinergics.....	7.7	(D)	(X)	(D)	6.1	6.0	(Z)	(Z)
28345 59	Other digestive system preparations, including emetics.....	3.6	3.4	(D)	(D)	4.2	4.1	(D)	(D)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972 shipment values (million dollars)				1967 shipment values (million dollars)			
		Total	Domestic shipments		Export shipments including those to foreign subsidi- aries	Total	Domestic shipments		Export shipments including those to foreign subsidi- aries
			Ethical	Proprietary			Ethical	Proprietary	
2834- --	PHARMACEUTICAL PREPARATIONS--Continued								
28345 --	Pharmaceutical Preparations, Acting on the Digestive or the Genito-Urinary Systems, for Human Use--Continued As reported in Current Industrial Reports MA-28G--Continued								
	Genito-urinary preparations:								
28345 61	Urinary antibacterials and antiseptics.....	44.8	43.4	(D)	(D)	34.7	34.1	(D)	(D)
	Diuretics (excludes aminophylline, xanthine and rauwolfia- diuretic combinations. See cardiovascular preparations):								
28345 71	Thiazides and related agents.....	80.8	(D)	-	(D)	57.0	56.9	(D)	(D)
28345 73	Other diuretics.....	58.7	56.8	(D)	(D)	37.7	34.8	(D)	(D)
28345 81	Oxytocics.....	3.7	(D)	(D)	(D)	2.9	2.7	(X)	.2
28345 83	Contraceptive agents, except oral contraceptives (aerosols, gels, and creams).....	19.8	8.9	(D)	(D)	11.3	(D)	(D)	.5
28345 85	Premenstrual tension preparations.....	7.5	(D)	7.4	(D)	4.6	(D)	2.9	(D)
28345 87	Vaginal cleaners.....	9.9	(D)	7.3	(D)	12.2	(D)	7.8	(D)
28345 98	Other pharmaceutical preparations acting on the genito- urinary system, including urinary tract anesthetics.....	20.6	18.8	1.2	.6	12.0	11.1	.3	.6
28345 00	Pharmaceutical preparations acting on the digestive or the genito-urinary systems, for human use, n.s.k.....	1.9	(D)	(D)	(D)	1.3	.5	(D)	(D)
28346 --	Pharmaceutical Preparations Acting on the Skin for Human Use:								
	As reported in census of manufactures.....	^a 348.5	(NA)	(NA)	(NA)	229.1	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	^b 344.2	119.2	219.3	5.8	225.9	84.9	137.1	3.9
	Dermatological preparations, total.....	188.2	(D)	93.0	(D)	146.6	(*)	(*)	(*)
28346 11	Emollients and protectives, including burn remedies and ointment bases.....	43.4	9.2	33.8	.4	48.7	8.7	39.5	.5
28346 13	Antipruritics and local anesthetic skin preparations.....	33.3	21.3	10.7	1.3	22.3	12.5	9.1	.7
28346 15	Coal tar, sulfur, and resorcinol preparations.....	7.3	(D)	(D)	-	6.1	(D)	4.4	(D)
28346 17	Anti-acne and antiseborrheic preparations.....	41.2	22.5	17.7	1.0	24.2	9.0	14.6	.5
28346 19	Other dermatological preparations.....	63.0	37.6	24.3	1.2	45.3	35.2	9.3	.8
28346 21	Hemorrhoidal preparations.....	42.6	11.4	30.7	.4	27.2	(D)	19.2	(D)
	External analgesics and counterirritants, total.....	72.0	(D)	63.6	(D)	41.2	(*)	(*)	(*)
28346 31	Ointments, jellies, pastes, creams, cerates, and salves....	28.7	2.5	26.0	.2	14.4	2.5	11.8	.1
28346 35	Liquid (excluding rubbing alcohol but including linaments).	20.0	1.3	18.5	.2	13.0	1.1	11.8	.1
28346 37	Rubbing alcohol.....	12.6	(D)	10.3	(D)	9.9	(D)	(D)	(Z)
28346 39	Other external analgesics.....	10.6	(D)	8.9	(D)	3.8	(D)	(D)	(D)
28346 98	Other pharmaceutical preparations acting on the skin.....	29.8	6.9	21.8	1.1	9.0	3.5	4.9	.6
28346 00	Pharmaceutical preparations acting on the skin, for human use, n.s.k.....	11.7	(D)	10.1	(D)	1.8	(D)	1.7	(D)
28347 --	Vitamin, Nutrient and Hematinic Preparations for Human Uses:								
	As reported in census of manufactures.....	^a 690.5	(NA)	(NA)	(NA)	378.4	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	^b 587.4	358.1	215.6	13.7	368.7	241.6	114.7	12.4
	Vitamins, total.....	322.7	(D)	(D)	7.7	204.1	(*)	(*)	(*)
28347 11	Multivitamins, plain and with minerals, except B complex vitamins and fish liver oils.....	173.1	67.7	101.5	4.0	106.7	48.0	55.6	3.1
28347 13	Pediatric vitamin preparations (drops, suspensions and chewable tablets).....	39.8	21.8	16.8	1.2	36.2	21.6	13.4	1.1
28347 14	Prenatal vitamin preparations.....	15.5	13.7	1.2	.6	10.8	9.8	.5	.4
28347 15	B complex preparations.....	39.4	32.5	6.0	.9	25.0	22.0	2.5	.6
28347 17	Fluoride preparations.....	9.5	(D)	(D)	(D)	26.0	16.2	8.1	1.7
28347 19	All other vitamin preparations.....	45.4	13.3	31.1	1.0				
28347 21	Fish liver oils (cod, etc.).....	2.9	(D)	1.9	(D)	3.2	(D)	1.6	(D)
28347 31	Nutrients, excluding therapeutic dietary foods and infant formulas.....	9.9	5.7	(D)	(D)	6.0	4.2	(D)	(D)
28347 41	Tonics and alternatives.....	3.4	.5	2.8	.1	4.3	1.0	3.1	.1
	Hematinics, total.....	71.8	39.8	30.2	1.9	58.8	(*)	(*)	(*)
	With B ₁₂ :								
28347 51	Oral.....	16.5	(D)	(D)	1.0	17.7	16.3	.8	.8
28347 53	Parenteral.....	6.5	6.3	(X)	.3	6.7	6.4	(X)	.3
	Other hematinics:								
28347 55	Oral.....	44.8	15.7	(D)	(D)	31.3	(D)	(D)	.3
28347 57	Parenteral.....	4.0	(D)	(X)	(D)	3.0	2.7	(X)	.3
28347 61	Hospital solutions, including dextran, etc., excluding biologicals (blood plasma).....	137.6	132.9	(D)	(D)	73.1	72.0	(X)	1.1
28347 98	Other vitamin, nutrient and hematinic preparations.....	35.1	17.7	17.0	.4	16.4	(D)	(D)	(D)
28347 00	Vitamin, nutrient and hematinic preparations for human use, n.s.k.....	4.0	2.5	1.5	(Z)	2.2	1.3	(D)	(D)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972 shipment values (million dollars)				1967 shipment values (million dollars)			
		Total	Domestic shipments		Export shipments including those to foreign subsidi- aries	Total	Domestic shipments		Export shipments including those to foreign subsidi- aries
			Ethical	Proprietary			Ethical	Proprietary	
2834- --	PHARMACEUTICAL PREPARATIONS--Continued								
28348 --	Pharmaceutical Preparations Affecting Parasitic and Infective Diseases, for Human Use:								
	As reported in census of manufactures.....	949.0	(NA)	(NA)	(NA)	664.5	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	948.1	773.6	135.6	38.9	697.6	530.9	122.1	44.6
	Anti-infective agents (Excludes corticoid-anti-infective combinations. See code 28341 15.):								
28348 11	Amebicides and trichomonacides.....	8.8	8.7	(X)	.1	11.1	10.9	(X)	.1
28348 15	Anthelmintics.....	6.1	(D)	(D)	(D)	5.7	(D)	(D)	.4
	Systemic antibiotic preparations, total.....	647.2	615.3	(X)	32.0	452.4	(*)	(*)	(*)
28348 21	Broad and medium spectrum (single or in combinations with other antibiotics, except penicillins).....	415.1	398.3	(X)	16.8	273.9	253.6	(X)	20.3
	Penicillins (single):								
28348 23	Injectable.....	47.5	43.9	(X)	3.6	51.8	45.0	(X)	6.8
28348 25	Other forms.....	163.1	152.1	(X)	11.0	99.1	(D)	(X)	(D)
28348 27	Penicillin-streptomycin and/or dihydrostreptomycin combinations.....	2.2	2.1	(X)	.1	3.2	2.8	(X)	.5
28348 29	Streptomycin and/or dihydrostreptomycin (single and combinations, except penicillin combinations).....	3.4	3.4	(X)	(Z)	3.3	(D)	(X)	(D)
28348 31	Antibiotics in combination with sulfonamides.....	2.7	2.4	(X)	.3	6.9	(D)	(X)	(D)
28348 39	Other systemic antibiotic preparations.....	13.2	13.0	(X)	.2	14.1	14.0	(X)	.1
28348 41	Topical antibiotic preparations.....	16.0	11.2	3.5	1.4	14.1	10.0	3.5	.6
	Tuberculostatic agents:								
28348 51	Isoniazid (isonicotinic acid hydrazide) preparations.....	1.2	(D)	(X)	(D)	1.0	(D)	(X)	(D)
28348 55	Other antituberculars.....	12.3	(D)	(X)	(D)	3.7	3.7	(X)	(Z)
28348 61	Antimalarials (plasmodicides).....	9.4	(D)	(D)	(D)	6.6	(D)	.1	(D)
28348 63	Sulfonamides, except antibiotic-sulfonamide combinations...	30.6	30.2	(X)	.4	32.5	32.1	-	.5
28348 65	Antifungal preparations.....	44.3	33.3	9.4	1.6	28.7	18.2	9.0	1.5
28348 69	Other anti-infective agents.....	8.7	7.5	(D)	(D)	5.5	5.0	(D)	(D)
	Antibacterials and antiseptics:								
28348 71	General.....	28.3	15.8	12.0	.5	16.1	7.0	8.7	.4
28348 75	Mouth and throat preparations.....	131.8	(D)	108.7	(D)	116.9	(D)	99.2	(D)
28348 98	Other pharmaceutical preparations affecting parasitic and infective diseases.....	1.9	1.9	(D)	(D)	1.0	1.0	(Z)	(Z)
28348 00	Pharmaceutical preparations affecting parasitic and infective diseases, for human use, n.s.k.....	1.4	(D)	.9	(D)	2.3	(D)	(D)	(D)
28349 --	Pharmaceutical Preparations for Veterinary Use:								
	As reported in census of manufactures.....	240.3	(NA)	(NA)	(NA)	135.4	(NA)	(NA)	(NA)
	As reported in Current Industrial Reports MA-28G.....	213.6	122.6	85.2	5.6	142.0	56.7	82.5	2.8
28349 11	Anesthetics.....	2.1	(D)	-	(D)	.8	(D)	-	(D)
28349 21	Anthelmintics.....	26.6	13.4	12.9	.4	15.9	3.8	11.8	.3
28349 23	Antibiotics.....	84.5	62.0	20.0	2.5	48.0	22.2	24.9	.9
28349 25	Antiseptics, wound dressings and fungicides.....	6.9	4.3	2.5	.2	4.5	2.9	1.5	.1
28349 31	Hematinics.....	1.8	.6	(D)	(D)	1.2	(D)	(D)	(D)
28349 33	Hemostatics.....	.2	(D)	(Z)	(D)	.2	.1	(D)	(D)
28349 35	Hormones.....	6.0	5.4	(D)	(D)	4.9	3.5	(D)	(D)
28349 37	Intravenous solutions and electrolytes.....	4.0	3.0	.8	.2	2.3	1.9	.3	.1
28349 41	Nitrofurans.....	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)
28349 43	Nutrients and tonics.....	4.1	.7	3.3	.1	5.0	3.2	1.7	(Z)
28349 45	Parasiticides, external.....	17.2	1.5	15.6	.1	8.2	1.5	6.6	.1
28349 47	Sulfonamides.....	18.5	11.2	6.6	.7	10.1	4.3	5.5	.3
28349 51	Tranquilizers and ataractics.....	2.3	2.2	(D)	(D)	1.2	(D)	(D)	(Z)
28349 55	Vitamins and minerals.....	17.5	7.0	9.9	.6	18.4	4.1	13.5	.8
28349 98	Other pharmaceutical preparations for veterinary use.....	21.9	9.4	12.1	.4	21.3	6.7	14.4	.2
28349 00	Pharmaceutical preparations for veterinary use, n.s.k.....								
	Pharmaceutical preparations, except biologicals, n.s.k.:								
	As reported in census of manufactures:								
28340 02	Companies with less than 10 employees. (See note.).....	27.5	(NA)	(NA)	(NA)	37.5	(NA)	(NA)	(NA)
28340 00	Companies with 10 employees or more. (See note.).....	59.1	(NA)	(NA)	(NA)	16.6	(NA)	(NA)	(NA)
28340 00	As reported in Current Industrial Reports MA-28G.....	1.9	.8	1.1	(Z)	1.6	1.0	.4	.1

See footnotes on next page.

TABLE 6A. Products and Product Classes—Value of Shipments by All Producers: 1972 and 1967

(Footnotes for table 6A)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

Definitions: Ethical--Products primarily advertised or otherwise promoted to or prescribed by the health professions (medical, dental, pharmaceutical, nursing, etc.). Proprietary--Products primarily advertised or otherwise promoted to the general public.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than 0.1 when rounded. *Totals for these product groupings are not being published in order to permit the maximum publication of detailed product data.

¹Data on quantities produced and values shipped for many of the synthetic organic medicinal chemicals included in this grouping are shown in the U.S. International Trade Commission's Annual Report, "Synthetic Organic Chemicals, United States Production and Sales."

²1972 product detail appears in Current Industrial Reports, series M28G, "Pharmaceutical Preparations, Except Biologicals." The variations between the two sets of figures are due primarily to the following reasons:

- Use of different bases for reporting value. Product class shipments of pharmaceutical preparations reported in the census of manufactures represent net sales value (total sales dollars, less discounts, allowances, and returns) f.o.b. plant. The value includes a profit (or loss) normally assigned to the manufacturing establishment to cover only those costs attributable to the establishment. For example, sales costs by separately maintained sales organizations are excluded. The data shown in Current Industrial Reports, series M28G, however, include value attributed by sales distribution, advertising, direct promotion, and research, whether or not directly attributable to the establishment. In cases where manufacturing, distribution, and sales operations are consolidated for accounting purposes for the establishment, the two values are comparable.
- Duplication. In order to avoid duplication of shipment figures, preparations shipped in bulk quantities which were repackaged at another location have been omitted from the commodity survey, but the shipments of the repackager have been included. The census figures also include the bulk shipments.

³Code 28341 31 combined with 28341 39.

⁴Code 28342 11 combined with 28342 98.

⁵Code 28342 41 combined with 28342 98.

⁶Codes 28344 65 and 28344 71 combined with 28344 79.

⁷Cough drops selling at retail for 10 cents per package or less are coded as primary to industry 2065, Confectionery Products.

⁸Differences between the census of manufactures and the Current Industrial Report are due to preparations shipped in bulk.

⁹Code 28349 41 combined with codes 28349 98 and 28349 00.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
BLOOD AND BLOOD DERIVATIVES, FOR HUMAN USE (28311)			ANTITOXINS, TOXOIDS, AND TOXINS FOR IMMUNIZATION, AND THERAPEUTIC IMMUNE SERUMS, FOR HUMAN USE (28313)		
United States.....	125.9	35.9	United States.....	18.3	12.7
Northeast Region.....	FF	20.8	Northeast Region.....	8.1	2.9
Middle Atlantic Division.....	FF	20.8	Middle Atlantic Division.....	8.1	2.9
New York.....	CC	CC	New York.....	BB	AA
New Jersey.....	FF	EE	New Jersey.....	BB	(NA)
Pennsylvania.....	CC	BB	Pennsylvania.....	BB	(NA)
North Central Region.....	FF	2.3	North Central Region.....	CC	BB
East North Central Division.....	FF	BB	East North Central Division.....	CC	BB
Illinois.....	EE	(NA)	Indiana.....	BB	BB
Michigan.....	CC	(NA)	Michigan.....	BB	BB
South Region.....	1.9	(NA)	West Region.....	BB	BB
West South Central Division.....	AA	(NA)	Pacific Division.....	BB	BB
West Region.....	53.8	12.8	California.....	BB	BB
Mountain Division.....	1.2	(NA)			
Pacific Division.....	52.6	EE			
Washington.....	AA	(NA)			
California.....	GG	EE			
VACCINES AND ANTIGENS, FOR HUMAN USE (28312)			DIAGNOSTIC SUBSTANCES AND OTHER BIOLOGICS, FOR HUMAN USE (28314)		
United States.....	70.5	36.6	United States.....	192.5	81.9
Northeast Region.....	49.8	19.3	Northeast Region.....	36.6	14.6
New England Division.....	AA	(NA)	Middle Atlantic Division.....	36.6	13.7
Connecticut.....	AA	(NA)	New York.....	15.3	7.8
Middle Atlantic Division.....	FF	19.3	New Jersey.....	EE	CC
New York.....	EE	CC	Pennsylvania.....	CC	(NA)
Pennsylvania.....	FF	CC	North Central Region.....	73.8	FF
North Central Region.....	19.6	EE	East North Central Division.....	FF	FF
East North Central Division.....	19.6	14.9	Ohio.....	BB	(NA)
Indiana.....	CC	EE	Indiana.....	FF	EE
Michigan.....	EE	BB	Illinois.....	BB	(NA)
			Michigan.....	EE	CC
			West North Central Division.....	FF	AA
			Missouri.....	FF	AA

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
DIAGNOSTIC SUBSTANCES AND OTHER BIOLOGICS, FOR HUMAN USE (28314)--Continued			SYNTHETIC ORGANIC MEDICINAL CHEMICALS, IN BULK (28331)--Continued		
South Region.....	57.0	FF	South Region--Continued		
South Atlantic Division.....	GG	FF	West South Central Division.....	EE	CC
Maryland.....	BB	EE	Arkansas.....	CC	(NA)
Florida.....	GG	CC	Texas.....	CC	CC
West Region.....	25.2	EE	West Region.....	8.9	10.8
Pacific Division.....	EE	EE	Pacific Division.....	8.9	10.8
California.....	24.0	EE	California.....	CC	EE
BIOLOGICAL PREPARATIONS FOR VETERINARY USE (28315)			OTHER MEDICINAL CHEMICALS AND BOTANICAL PRODUCTS, IN BULK, N.E.C. (28332)		
United States.....	74.1	47.9	United States.....	144.0	80.1
Northeast Region.....	BB	5.2	Northeast Region.....	73.4	31.7
Middle Atlantic Division.....	BB	5.0	New England Division.....	AA	(NA)
New Jersey.....	1.9	AA	Connecticut.....	AA	(NA)
Pennsylvania.....	AA	(NA)	Middle Atlantic Division.....	GG	FF
North Central Region.....	55.5	34.3	New York.....	EE	8.9
East North Central Division.....	11.6	10.5	New Jersey.....	40.9	19.9
Indiana.....	BB	CC	Pennsylvania.....	CC	BB
Illinois.....	BB	AA	North Central Region.....	62.5	33.8
Wisconsin.....	BB	BB	East North Central Division.....	43.1	23.7
West North Central Division.....	43.9	23.9	Indiana.....	EE	EE
Iowa.....	12.7	8.9	Illinois.....	FF	CC
Missouri.....	CC	BB	Wisconsin.....	BB	(NA)
Nebraska.....	EE	6.2	West North Central Division.....	19.4	10.1
Kansas.....	EE	BB	Iowa.....	7.2	BB
South Region.....	9.7	CC	Missouri.....	EE	CC
South Atlantic Division.....	7.7	2.6	South Region.....	5.3	11.1
Delaware.....	BB	AA	South Atlantic Division.....	AA	BB
Maryland.....	AA	(NA)	Maryland.....	AA	(NA)
West South Central Division.....	AA	AA	West South Central Division.....	BB	6.0
Texas.....	AA	AA	Texas.....	BB	BB
West Region.....	BB	BB	West Region.....	2.8	3.5
Mountain Division.....	BB	(NA)	Pacific Division.....	AA	3.5
Colorado.....	BB	(NA)	California.....	AA	3.5
SYNTHETIC ORGANIC MEDICINAL CHEMICALS, IN BULK (28331)			PHARMACEUTICAL PREPARATIONS AFFECTING NEOPLASMS, ENDOCRINE SYSTEM, AND METABOLIC DISEASES, FOR HUMAN USE (28341)		
United States.....	635.6	503.7	United States.....	615.4	420.2
Northeast Region.....	342.8	261.5	Northeast Region.....	346.5	190.5
New England Division.....	FF	FF	New England Division.....	BB	(NA)
Massachusetts.....	CC	(NA)	Connecticut.....	BB	(NA)
Rhode Island.....	BB	BB	Middle Atlantic Division.....	GG	189.8
Connecticut.....	FF	FF	New York.....	GG	91.6
Middle Atlantic Division.....	GG	GG	New Jersey.....	138.5	GG
New York.....	GG	63.6	Pennsylvania.....	GG	FF
New Jersey.....	198.6	133.9	North Central Region.....	217.0	220.9
Pennsylvania.....	FF	FF	East North Central Division.....	212.6	218.8
North Central Region.....	166.3	126.2	Ohio.....	5.2	2.7
East North Central Division.....	99.3	73.3	Indiana.....	GG	GG
Ohio.....	CC	BB	Illinois.....	39.3	54.7
Indiana.....	36.8	FF	Michigan.....	GG	GG
Illinois.....	EE	12.9	West North Central Division.....	4.4	2.2
Michigan.....	42.7	36.2	Missouri.....	BB	AA
West North Central Division.....	66.9	53.0	South Region.....	EE	5.4
Minnesota.....	BB	(NA)	South Atlantic Division.....	EE	AA
Missouri.....	46.2	GG	North Carolina.....	EE	(NA)
Nebraska.....	EE	BB	East South Central Division.....	AA	(NA)
South Region.....	117.6	105.1	Tennessee.....	AA	(NA)
South Atlantic Division.....	GG	GG	West South Central Division.....	AA	BB
Virginia.....	FF	FF	West Region.....	FF	3.3
West Virginia.....	EE	FF	Mountain Division.....	AA	(NA)
North Carolina.....	AA	(NA)	Pacific Division.....	FF	BB
Georgia.....	FF	FF	California.....	FF	2.9
East South Central Division.....	14.6	EE			
Kentucky.....	CC	CC			
Tennessee.....	CC	BB			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PHARMACEUTICAL PREPARATIONS ACTING ON THE CENTRAL NERVOUS SYSTEM AND THE SENSE ORGANS, FOR HUMAN USE (28342)			PHARMACEUTICAL PREPARATIONS ACTING ON THE RESPIRATORY SYSTEM, FOR HUMAN USE (28344)--Continued		
United States.....	1,638.1	1,137.1	North Central Region.....	144.4	92.7
Northeast Region.....	1,181.3	823.2	East North Central Division.....	106.8	66.8
New England Division.....	FF	19.6	Ohio.....	BB	AA
Massachusetts.....	EE	EE	Indiana.....	54.8	31.9
Connecticut.....	EE	BB	Illinois.....	19.8	6.9
Middle Atlantic Division.....	GG	803.6	Michigan.....	FF	24.9
New York.....	GG	146.7	West North Central Division.....	37.7	25.8
New Jersey.....	557.1	359.5	Missouri.....	20.6	16.4
Pennsylvania.....	367.1	297.4	Nebraska.....	EE	CC
North Central Region.....	340.0	240.8	South Region.....	128.6	65.8
East North Central Division.....	GG	232.0	South Atlantic Division.....	123.9	GG
Ohio.....	FF	EE	Virginia.....	FF	FF
Indiana.....	190.5	158.4	North Carolina.....	GG	FF
Illinois.....	49.9	38.1	Georgia.....	BB	AA
Michigan.....	33.0	20.5	Florida.....	AA	(NA)
Wisconsin.....	BB	BB	East South Central Division.....	BB	BB
West North Central Division.....	FF	8.8	Tennessee.....	BB	BB
Missouri.....	FF	7.7	West Region.....	10.0	7.7
South Region.....	81.2	61.1	Pacific Division.....	CC	7.7
South Atlantic Division.....	FF	40.0	California.....	9.8	CC
Virginia.....	EE	EE			
North Carolina.....	FF	10.1	PHARMACEUTICAL PREPARATIONS ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS FOR HUMAN USE (28345)		
East South Central Division.....	18.6	EE	United States.....	764.0	552.1
Tennessee.....	EE	EE	Northeast Region.....	428.2	317.3
West South Central Division.....	EE	CC	New England Division.....	17.6	14.7
Texas.....	EE	CC	Massachusetts.....	AA	AA
West Region.....	35.8	12.0	Connecticut.....	EE	EE
Pacific Division.....	FF	EE	Middle Atlantic Division.....	410.7	302.6
California.....	35.1	10.8	New York.....	137.1	121.2
			New Jersey.....	165.3	88.4
PHARMACEUTICAL PREPARATIONS ACTING ON THE CARDIOVASCULAR SYSTEM, FOR HUMAN USE (28343)			Pennsylvania.....	108.2	93.1
United States.....	383.1	207.5	North Central Region.....	172.6	158.2
Northeast Region.....	290.1	157.4	East North Central Division.....	149.8	136.0
New England Division.....	2.6	AA	Ohio.....	26.3	27.1
Massachusetts.....	BB	AA	Indiana.....	EE	12.7
Middle Atlantic Division.....	287.5	GG	Illinois.....	82.3	76.5
New York.....	GG	EE	Michigan.....	18.5	EE
New Jersey.....	103.2	71.1	Wisconsin.....	CC	CC
Pennsylvania.....	GG	53.9	West North Central Division.....	22.7	22.1
North Central Region.....	75.1	40.3	Missouri.....	21.8	20.9
East North Central Division.....	GG	EE	South Region.....	108.5	50.9
Ohio.....	CC	2.4	South Atlantic Division.....	62.0	23.9
Indiana.....	EE	CC	Delaware.....	AA	(NA)
Illinois.....	16.3	14.7	Maryland.....	2.3	BB
Michigan.....	8.7	4.2	Virginia.....	FF	FF
West North Central Division.....	FF	CC	North Carolina.....	CC	(NA)
Missouri.....	FF	CC	South Carolina.....	FF	(NA)
South Region.....	12.0	6.1	Florida.....	AA	(NA)
South Atlantic Division.....	EE	BB	East South Central Division.....	45.2	26.5
Virginia.....	BB	AA	Tennessee.....	FF	EE
North Carolina.....	CC	(NA)	Mississippi.....	EE	EE
East South Central Division.....	AA	AA	West South Central Division.....	1.2	(NA)
Tennessee.....	AA	AA	Texas.....	1.2	(NA)
West Region.....	5.9	3.6	West Region.....	54.7	25.8
Pacific Division.....	CC	BB	Pacific Division.....	GG	25.4
California.....	CC	3.1	California.....	GG	24.9
PHARMACEUTICAL PREPARATIONS ACTING ON THE RESPIRATORY SYSTEM, FOR HUMAN USE (28346)			PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN, FOR HUMAN USE (28346)		
United States.....	579.9	361.4	United States.....	348.5	229.1
Northeast Region.....	296.8	195.2	Northeast Region.....	194.6	138.8
New England Division.....	3.3	4.3	New England Division.....	29.8	6.7
Massachusetts.....	1.1	(NA)	Massachusetts.....	CC	BB
Connecticut.....	2.2	BB	Connecticut.....	FF	BB
Middle Atlantic Division.....	293.5	190.9	Middle Atlantic Division.....	164.8	132.1
New York.....	32.7	33.6	New York.....	57.6	58.5
New Jersey.....	113.9	79.0	New Jersey.....	81.6	52.5
Pennsylvania.....	146.9	78.3	Pennsylvania.....	25.5	21.1

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN, FOR HUMAN USE (28346)—Continued			PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE (28348)		
North Central Region.....	87.5	59.2	United States.....	949.0	664.5
East North Central Division.....	78.2	48.6	Northeast Region.....	552.6	408.7
Ohio.....	1.9	2.1	New England Division.....	BB	BB
Indiana.....	FF	19.3	Connecticut.....	BB	BB
Illinois.....	33.3	18.4	Middle Atlantic Division.....	GG	GG
Michigan.....	14.1	7.8	New York.....	250.2	220.6
Wisconsin.....	AA	AA	New Jersey.....	178.4	80.9
West North Central Division.....	9.3	10.6	Pennsylvania.....	GG	GG
Missouri.....	8.4	CC	North Central Region.....	345.7	245.3
South Region.....	61.3	28.8	East North Central Division.....	344.2	221.3
South Atlantic Division.....	29.2	9.5	Ohio.....	FF	FF
Maryland.....	3.2	BB	Indiana.....	GG	GG
Virginia.....	BB	CC	Illinois.....	51.5	FF
North Carolina.....	EE	(NA)	Michigan.....	GG	GG
South Carolina.....	BB	(NA)	West North Central Division.....	1.5	4.6
East South Central Division.....	19.9	14.5	Missouri.....	1.1	AA
Tennessee.....	19.9	14.5	South Region.....	44.8	4.2
West South Central Division.....	12.3	4.8	South Atlantic Division.....	FF	AA
Louisiana.....	AA	(NA)	Virginia.....	CC	(NA)
Texas.....	EE	4.8	West Virginia.....	CC	(NA)
West Region.....	5.0	2.3	North Carolina.....	EE	(NA)
Pacific Division.....	5.0	BB	South Carolina.....	CC	(NA)
California.....	5.0	1.9	West South Central Division.....	BB	AA
VITAMIN, NUTRIENT, AND HEMATINIC PREPARATIONS, FOR HUMAN USE (28347)			Texas.....	BB	AA
United States.....	690.5	378.3	West Region.....	6.0	6.3
Northeast Region.....	200.0	113.2	Pacific Division.....	6.0	6.3
New England Division.....	13.9	BB	California.....	6.0	BB
Massachusetts.....	AA	1.2	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (28349)		
Connecticut.....	EE	BB	United States.....	240.3	135.4
Middle Atlantic Division.....	186.1	GG	Northeast Region.....	81.9	45.7
New York.....	64.9	41.0	New England Division.....	5.1	3.6
New Jersey.....	107.6	55.4	Connecticut.....	BB	BB
Pennsylvania.....	13.6	EE	Middle Atlantic Division.....	76.8	42.1
North Central Region.....	287.2	186.8	New York.....	43.1	15.5
East North Central Division.....	268.8	177.8	New Jersey.....	FF	21.7
Ohio.....	CC	CC	Pennsylvania.....	BB	5.0
Indiana.....	84.2	67.5	North Central Region.....	113.6	71.9
Illinois.....	GG	55.6	East North Central Division.....	58.2	26.2
Michigan.....	82.6	45.1	Ohio.....	BB	EE
Wisconsin.....	BB	BB	Indiana.....	FF	3.9
West North Central Division.....	18.4	8.9	Illinois.....	12.5	(NA)
Iowa.....	BB	(NA)	Michigan.....	EE	CC
Missouri.....	12.9	CC	Wisconsin.....	AA	(NA)
South Region.....	93.4	50.4	West North Central Division.....	55.3	45.7
South Atlantic Division.....	47.6	FF	Minnesota.....	AA	(NA)
Virginia.....	CC	BB	Iowa.....	17.8	EE
South Carolina.....	EE	EE	Missouri.....	15.6	11.5
Georgia.....	FF	CC	Nebraska.....	EE	16.4
East South Central Division.....	FF	FF	Kansas.....	CC	AA
Tennessee.....	EE	EE	South Region.....	29.7	14.2
Mississippi.....	FF	EE	South Atlantic Division.....	24.7	EE
West South Central Division.....	BB	2.0	Maryland.....	CC	BB
Texas.....	BB	AA	Virginia.....	EE	CC
West Region.....	109.8	28.1	South Carolina.....	AA	(NA)
Mountain Division.....	CC	(NA)	Florida.....	BB	(NA)
Utah.....	CC	(NA)	East South Central Division.....	BB	AA
Pacific Division.....	GG	FF	Tennessee.....	BB	AA
Washington.....	BB	(NA)	West Region.....	15.1	3.5
Oregon.....	BB	AA	Mountain Division.....	AA	AA
California.....	96.7	26.5	Pacific Division.....	EE	2.5
			California.....	EE	2.5

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2831	Biological products.....	495.2	415.4	350.9	315.4	247.6	220.6	167.3	119.5
28311	Blood and blood derivatives, for human use.....	125.9	104.1	80.0	64.4	46.9	35.9	125.3	83.1
28312	Vaccines and antigens, for human use.....	70.5	70.5	84.7	74.9	40.9	36.6		
28313	Antitoxins, therapeutic immune serums, for human use.....	18.3	14.7	13.6	14.8	19.3	12.7		
28314	Diagnostic substances, other biologics, for human use.....	192.5	159.0	124.9	107.4	89.5	81.9		
28315	Biological preparations for veterinary use.....	74.1	57.9	45.1	48.1	46.6	47.9	40.7	35.5
28310	Biological products, n.s.k.....	13.8	(9.2)	(2.6)	5.8	(4.4)	5.7	1.3	.9
2833	Medicinals and botanicals.....	793.5	761.2	747.1	666.3	627.5	593.8	434.0	391.1
28331	Synthetic organic medicinal chemicals, in bulk.....	635.6	604.8	605.0	559.0	535.1	503.7	367.8	(NA)
28332	Medicinal chemicals and botanical products in bulk, n.e.c..	144.0	140.1	121.2	104.9	86.1	80.1	64.7	(NA)
28330	Medicinals and botanicals, n.s.k.....	14.0	16.3	(20.9)	(2.4)	(6.3)	10.0	1.5	2.9
2834	Pharmaceutical preparations.....	6,295.4	5,610.5	5,264.3	5,017.0	4,593.9	4,139.7	3,000.2	² 2,344.6
28341	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	615.4	536.9	510.1	515.7	459.0	420.2	259.1	(NA)
28342	Pharmaceutical preparations acting on nervous system and sense organs, for human use.....	1,638.1	1,486.3	1,425.4	1,343.5	1,250.9	1,137.1	755.8	(NA)
28343	Pharmaceutical preparations acting on cardiovascular system, for human use.....	383.1	325.4	290.0	267.2	239.4	207.5	143.6	(NA)
28344	Pharmaceutical preparations acting on respiratory system, for human use.....	579.9	503.0	497.7	475.6	431.2	361.4	283.1	(NA)
28345	Pharmaceutical preparations acting on digestive genito-urinary systems, for human use.....	764.0	687.5	644.5	645.6	606.8	552.1	402.8	(NA)
28346	Pharmaceutical preparations acting on skin, for human use..	348.5	(331.0)	303.4	279.1	256.7	229.1	160.3	(NA)
28347	Vitamin, nutrient, and hematinic preparations, for human use	690.5	609.9	528.1	476.4	408.4	378.4	340.8	(NA)
28348	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	949.0	844.2	773.1	802.7	736.2	664.5	520.1	(NA)
28349	Pharmaceutical preparations for veterinary use.....	240.3	(211.0)	(235.8)	160.6	152.7	135.4	110.4	87.7
28340	Pharmaceutical preparations, n.s.k.....	86.6	75.3	(56.2)	50.6	52.6	54.1	24.3	49.8

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²A major revision in the classification of products classified in industry 2834, Pharmaceutical Preparations, was introduced in 1963, and therefore, prior data, for the most part, are not comparable at the product class level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Delivered cost	
		(million dollars)	
		1972	1967
	INDUSTRY 2831.--BIOLOGICAL PRODUCTS		
	Materials, containers, and supplies, total.....	123.3	46.7
283318	Antibiotics for human and veterinary use (excluding antibiotics for animal feed).....	(X)	(X)
283317	Sulfa drugs, bulk.....	(X)	(X)
283301	Vitamins, natural and synthetic, bulk (excluding vitamins for animal feeds).....	(X)	(X)
	Containers:		
265011	Paperboard boxes and containers.....	4.3	2.5
322102	Glass.....	7.8	3.0
340001	Metal.....	.4	(X)
307940	Plastic.....	2.0	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....	97.4	32.2
976000	Materials, containers, and supplies, n.s.k. ¹	11.4	9.0
	INDUSTRY 2833.--MEDICINALS AND BOTANICALS		
	Materials, containers, and supplies, total ²	207.8	(NA)
283318	Antibiotics for human and veterinary use (excluding antibiotics for animal feed).....	5.8	(NA)
283317	Sulfa drugs, bulk.....		(NA)
283301	Vitamins, natural and synthetic, bulk (excluding vitamins for animal feeds).....		(NA)
	Containers:		
265011	Paperboard boxes and containers.....	3.3	(NA)
322102	Glass.....	2.0	(NA)
340001	Metal.....		(NA)
307940	Plastic.....	1.7	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	157.8	(NA)
976000	Materials, containers, and supplies, n.s.k. ¹	9.5	(NA)
	INDUSTRY 2834.--PHARMACEUTICAL PREPARATIONS		
	Materials, containers, and supplies, total.....	1,372.0	902.6
283318	Antibiotics for human and veterinary use (excluding antibiotics for animal feed).....	57.3	45.5
283317	Sulfa drugs, bulk.....	22.4	27.3
283301	Vitamins, natural and synthetic, bulk (excluding vitamins for animal feeds).....	114.7	57.4
	Containers:		
265011	Paperboard boxes and containers.....	104.4	68.5
322102	Glass.....	130.6	86.1
340001	Metal.....	41.1	29.8
307940	Plastic.....	75.5	40.7
970099	All other materials and components, parts, containers, and supplies consumed.....	774.0	484.1
976000	Materials, containers, and supplies, n.s.k. ¹	52.0	63.4

(X) Not applicable. (NA) Not available.

¹This item represents the total cost of materials for establishments that did not report detailed materials data. It also includes estimates for companies that were not mailed report forms.²Comparable data for 1967 are not available.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 2833.--MEDICINALS AND BOTANICALS					
	Purchased fuels and electric energy.....		(X)	15.2	(X)	8.5
	Purchased fuels, total.....		(X)	10.6	(X)	5.5
121005	Coal.....	1,000 s. tons....	174.3	1.4	150.3	1.2
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,994.4	6.4	1,249.8	3.4
291141	Distillate.....	...do.....	782.6	3.0	1,047.6	2.9
291151	Residual.....	...do.....	1,211.7	3.5	202.5	.5
131300	Natural gas.....	Billion ft ³	1.9	1.2	1.3	.6
960011	Other fuels.....		(X)	(Z)	(X)	.2
975000	Fuels, n.s.k.....		(X)	1.6	(X)	.1
960012	Purchased electric energy.....	Million kWh.....	422.7	4.6	316.7	3.0
	Quantity of electric energy generated less quantity sold....	...do.....	144.7	-	41.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	7.4	-	4.2	-
	INDUSTRY 2834.--PHARMACEUTICAL PREPARATIONS					
	Purchased fuels and electric energy.....		(X)	44.9	(X)	25.8
	Purchased fuels, total.....		(X)	18.5	(X)	10.6
121005	Coal.....	1,000 s. tons....	188.3	2.2	305.9	2.5
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,587.6	7.6	1,314.0	3.5
291141	Distillate.....	...do.....	573.3	3.0	226.0	.8
291151	Residual.....	...do.....	1,014.3	4.6	1,088.0	2.7
131300	Natural gas.....	Billion ft ³	13.8	7.3	6.6	2.9
960011	Other fuels.....		(X)	.8	(X)	1.1
975000	Fuels, n.s.k.....		(X)	.7	(X)	.6
960012	Purchased electric energy.....	Million kWh.....	2,192.9	26.4	1,474.2	15.2
	Quantity of electric energy generated less quantity sold....	...do.....	39.3	-	115.7	-
	Total energy used for heat and power.....	Bil. kWh equiv....	11.4	-	9.1	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (Z) Less than half of the unit of measurement shown.

Soaps, Cleaners, and Toilet Goods

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EXPLANATORY TEXT

SOAPS, CLEANERS, AND TOILET GOODS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 2841—Soap and Other Detergents, Except Specialty Cleaners*
- 2842—Specialty Cleaning, Polishing, and Sanitation Preparations*
- 2843—Surface Active Agents, Finishing Agents, Sulfonated Oils and Assistants*
- 2844—Perfumes, Cosmetics, and Other Toilet Preparations*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2841.—SOAP AND OTHER DETERGENTS (Short Title)

This industry comprises establishments primarily engaged in manufacturing soap, synthetic organic detergents, inorganic alkaline detergents, or any combination thereof, and establishments producing crude and refined glycerin from vegetable and animal fats and oils. Establishments primarily engaged in manufacturing shampoos or shaving products, whether from soap or synthetic detergents, are classified in industry 2844; and synthetic glycerin in industry 2869 (Industrial Organic Chemicals, N.E.C.). For a detailed list of products of industry

*Note that the "short title" for this industry is used throughout the report.

2841, refer to table 6A, product codes 28411 12 to 28414 51.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Soap and Other Detergents Industry in 1972 totaled \$3,394.4 million. This included shipments of soap and other detergents (primary products) valued at \$2,579.5 million, shipments of other products (secondary products) valued at \$537.2 million, and miscellaneous receipts (mainly resales) of \$277.7 million.

Shipments of soap and other detergents (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of polishes and sanitation goods (\$165.3 million) and toilet preparations (\$172.5 million).

Shipments of soap and other detergents (primary products) from establishments classified in industry 2841 in 1972 represented 90 percent (coverage ratio) of these products valued at \$2,851.8 million shipped by all industries. In 1967, the coverage ratio was also 90 percent. Other industries shipping soap and other detergents consisted mainly of industry 2842, Polishes and Sanitation Goods, (\$112.9 million) and industry 2844, Toilet Preparations, (\$49.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2841, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2842.—POLISHES AND SANITATION GOODS (Short Title)

This industry comprises establishments primarily engaged in manufacturing furniture, metal, and other polishes; waxes and dressings for fabricated leather and other materials; household, institutional, and industrial plant disinfectants and deodorants; household bleaches; dry cleaning preparations; and other sanitation preparations. For a detailed list of products of industry 2842, refer to table 6A, product codes 28422 43 to 28424 98.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual; however, the SIC number and title are unchanged. 1972 revisions transferred the manufacture of household insecticides and repellants to industry 2879, Agricultural Chemicals, N.E.C. In addition, the production of household liquid and dry bleaches was transferred from industry 2819, Industrial Inorganic Chemicals, N.E.C., to this industry. The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and the new SIC. As can be seen from table 1C, 868 establishments with 22.0 thousand total employment and \$978.6 million value added would have been classified in industry 2842 under the old SIC. As a result of the revisions, 89 establishments with 0.8 thousand employees and \$41.6 million value added shifted to industry 2879; and 329 establishments with 3.9 thousand employees and \$181.1 million value added shifted from industry 2819 to industry 2842.

Value of shipments and other receipts of the Polishes and Sanitation Goods Industry in 1972 totaled \$1,867.6 million. This included shipments of polishes and sanitation goods (primary products) valued at \$1,436.7 million, shipments of other products (secondary products) valued at \$331.0 million, and miscellaneous receipts (mainly resales) of \$99.9 million.

Shipments of polishes and sanitation goods (primary products) in 1972 represented 81 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of soap and other detergents (\$112.9 million) and agricultural chemicals, n.e.c., (\$71.6 million).

Shipments of polishes and sanitation goods (primary products) from establishments classified in industry 2842 in 1972 represented 83 percent (coverage ratio) of these products valued at \$1,735.8 million shipped by all industries. Other industries shipping polishes and sanitation goods consisted mainly of industry 2841, Soap and Other Detergents, (\$165.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2842, these establishments accounted for 10 percent of value of shipments.

INDUSTRY 2843.—SURFACE ACTIVE AGENTS (Short Title)

This industry comprises establishments primarily engaged in producing surface active preparations for use as wetting agents,

emulsifiers, and penetrants. Establishments engaged in producing sulfonated oils and fats and related products are also included in this industry. For a detailed list of products of industry 2843, refer to table 6A, product codes 28430 41 to 28430 85.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Surface Active Agents Industry in 1972 totaled \$462.6 million. This included shipments of surface active agents (primary products) valued at \$349.9 million, shipments of other products (secondary products) valued at \$80.3 million, and miscellaneous receipts (mainly resales) of \$32.4 million.

Shipments of surface active agents (primary products) in 1972 represented 81 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 79 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c., (\$29.6 million) and soap and other detergents (\$10.1 million).

Shipments of surface active agents (primary products) from establishments classified in industry 2843 in 1972 represented 60 percent (coverage ratio) of these products valued at \$580.7 million shipped by all industries. In 1967, the coverage ratio was 54 percent. Other industries shipping surface active agents consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$83.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2843, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2844.—TOILET PREPARATIONS (Short Title)

This industry comprises establishments primarily engaged in manufacturing perfumes (natural and synthetic), cosmetics, and other toilet preparations. This industry also includes establishments primarily engaged in blending and compounding perfume bases; and those manufacturing shampoos and shaving products, whether from soap or synthetic detergents. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in industry 2869 (Industrial Organic Chemicals, N.E.C.) and essential oils in industry 2899 (Chemical Preparations, N.E.C.). For a detailed list of products of industry 2844, refer to table 6A, product codes 28441 33 to 28445 98.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Toilet Preparations Industry in 1972 totaled \$4,057.3 million. This included shipments of toilet preparations (primary products) valued at \$3,635.7 million, shipments of other products (secondary products) valued at \$248.6 million, and miscellaneous receipts (mainly resales) of \$173.0 million.

Shipments of toilet preparations (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 94 percent. Secondary products shipped by this industry in 1972 consisted mainly of pharmaceutical preparations (\$89.6 million) and soap and other detergents (\$49.3 million).

Shipments of toilet preparations (primary products) from

establishments classified in industry 2844 in 1972 represented 86 percent (coverage ratio) of these products valued at \$4,247.1 million shipped by all industries. In 1967, the coverage ratio was 80 percent. Other industries shipping toilet preparations consisted mainly of industry 2834, Pharmaceutical Preparations, (\$245.1 million) and industry 2841, Soap and Other Detergents, (\$172.5 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2844, these establishments accounted for less than 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2841.--SOAP AND OTHER DETERGENTS															
1972 Census.....	642	199	31.5	341.6	20.4	40.9	205.9	2,038.8	1,373.7	3,394.4	90.7	(NA)	381.7	83	90
1971 ASM.....	(NA)	(NA)	30.1	305.5	19.2	38.0	178.7	1,728.1	1,291.4	3,020.7	96.2	903.9	320.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	30.9	283.5	19.9	39.8	171.6	1,647.6	1,375.5	2,987.3	84.7	839.7	317.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	30.8	269.8	20.5	40.5	161.5	1,542.7	1,346.1	2,888.6	48.6	725.9	274.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	29.6	246.7	19.8	38.8	150.6	1,485.9	1,286.7	2,763.0	46.0	688.1	266.7	(NA)	(NA)
1967 Census.....	668	207	30.3	243.0	20.2	40.1	145.3	1,403.7	1,202.0	2,593.4	48.1	643.7	250.5	83	90
1966 ASM.....	(NA)	(NA)	28.8	221.5	19.1	39.4	133.1	1,068.9	1,110.0	2,395.9	31.2	(NA)	226.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	30.0	218.3	19.8	40.0	128.0	1,219.5	1,063.7	2,285.7	36.6	(NA)	206.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	31.7	226.0	20.7	42.0	133.3	1,206.7	1,030.8	2,227.8	28.2	574.3	210.6	(NA)	(NA)
1963 Census.....	704	172	30.8	214.1	20.1	41.0	127.6	1,137.4	990.5	2,127.8	44.1	555.0	195.2	82	92
1962 ASM.....	(NA)	(NA)	31.1	213.2	19.6	39.8	122.7	1,068.9	929.1	1,996.2	44.8	517.8	191.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	31.3	207.7	19.4	39.1	115.9	1,015.9	896.3	1,900.7	30.6	(NA)	197.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	30.7	197.8	19.0	37.9	109.3	952.9	872.7	1,815.4	26.9	(NA)	184.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	30.1	188.3	18.5	36.9	103.1	949.4	814.9	1,827.9	*27.0	(NA)	165.0	(NA)	(NA)
1958 Census.....	608	163	29.6	181.5	18.2	36.8	97.3	857.6	747.8	1,605.9	17.8	(NA)	160.2	86	91
INDUSTRY 2842.--POLISHES AND SANITATION GOODS															
1972 Census.....	1,108	243	25.1	216.9	14.7	28.6	100.5	1,118.1	758.6	1,867.6	54.3	(NA)	151.6	81	83
INDUSTRY 2843.--SURFACE ACTIVE AGENTS															
1972 Census.....	178	86	6.9	71.5	3.8	7.7	32.3	209.5	257.0	462.6	19.7	(NA)	61.4	81	60
1971 ASM.....	(NA)	(NA)	6.6	68.5	3.5	7.3	30.0	173.3	215.6	388.3	19.8	168.0	52.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	6.4	60.4	3.4	7.0	26.6	163.3	212.3	375.1	21.9	152.0	48.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	5.8	57.7	3.0	6.2	22.7	151.4	174.6	324.0	8.3	136.5	42.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	5.9	54.9	3.2	6.5	22.7	141.5	187.6	328.9	9.1	144.2	40.7	(NA)	(NA)
1967 Census.....	164	71	5.7	49.9	3.1	6.3	20.6	129.5	166.5	294.2	8.0	141.3	37.6	79	54
1966 ASM.....	(NA)	(NA)	5.0	45.9	2.6	5.6	17.8	112.5	142.6	252.1	9.1	(NA)	30.6	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	4.6	38.6	2.4	5.0	15.3	96.0	120.4	214.5	7.2	(NA)	26.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	4.5	36.0	2.4	4.9	14.4	88.7	114.1	200.5	*5.8	101.7	25.7	(NA)	(NA)
1963 Census.....	148	59	4.1	31.9	2.2	4.6	12.8	75.7	101.5	177.8	7.2	95.8	22.5	80	47
1962 ASM.....	(NA)	(NA)	*2.8	*21.1	*1.6	*3.3	*8.9	*54.1	*80.0	*132.1	*10.5	88.1	*20.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*2.8	*20.3	*1.6	*3.3	*8.5	*60.8	*84.2	*144.0	*12.3	(NA)	*19.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*3.0	*20.8	*1.8	*3.5	*8.8	*60.0	*77.8	*137.0	*1.9	(NA)	*18.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*3.2	*20.8	*1.9	*4.0	*9.4	*83.9	*87.6	*175.6	*3.7	(NA)	*19.8	(NA)	(NA)
1958 Census.....	142	46	3.1	19.5	1.8	3.7	8.9	52.4	73.3	126.6	3.1	(NA)	16.0	80	45
INDUSTRY 2844.--TOILET PREPARATIONS															
1972 Census.....	646	205	48.3	428.3	31.9	61.1	219.7	2,836.9	1,242.6	4,057.3	71.4	(NA)	469.5	94	86
1971 ASM.....	(NA)	(NA)	45.9	379.6	27.4	54.5	180.8	2,509.6	1,096.1	3,633.1	63.7	599.0	412.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	48.8	377.7	29.8	59.3	178.9	2,429.6	1,067.7	3,452.2	78.8	555.8	449.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	47.0	333.8	29.4	57.2	159.7	2,173.7	993.8	3,163.2	49.7	420.0	381.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	44.6	300.5	28.0	54.5	142.6	2,028.9	932.8	2,933.8	49.8	391.6	332.6	(NA)	(NA)
1967 Census.....	672	193	41.5	262.2	26.4	50.2	125.0	1,730.6	804.9	2,515.6	52.7	364.9	278.0	94	80
1966 ASM.....	(NA)	(NA)	40.6	248.2	25.3	49.6	121.6	1,674.9	780.2	2,430.6	33.6	(NA)	255.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	37.8	215.7	23.9	46.5	105.2	1,506.0	709.9	2,201.2	35.4	(NA)	212.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	35.4	193.3	21.7	43.1	97.1	1,378.8	629.0	2,003.8	19.9	228.1	189.9	(NA)	(NA)
1963 Census.....	707	183	34.3	183.2	21.6	42.4	92.5	1,232.9	565.1	1,792.7	20.2	209.9	175.0	91	84
1962 ASM.....	(NA)	(NA)	33.6	174.0	20.9	40.5	80.7	1,015.9	491.1	1,501.0	14.4	191.8	153.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	31.6	163.6	20.2	40.1	79.6	929.8	436.2	1,363.5	11.4	(NA)	134.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	30.8	150.5	19.6	38.3	73.3	863.5	401.0	1,261.4	11.6	(NA)	127.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	31.0	146.9	19.8	38.0	72.0	838.2	395.9	1,229.5	*44.9	(NA)	127.3	(NA)	(NA)
1958 Census.....	748	181	29.5	134.0	18.5	36.0	66.7	697.5	358.9	1,059.2	14.3	(NA)	117.1	91	81

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2841	Industry 2842	Industry 2843	Industry 2844
1972.....	577	1,022	151	593
1967.....	599	(NA)	154	624
1963.....	641	(NA)	137	673

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2841.--SOAP AND OTHER DETERGENTS											
1972 Census.....	10,878	(NA)	65	2,005	5.03	.40	.51	(NA)	64,933	17	49.85
1971 ASM.....	10,150	30,030	64	1,979	4.70	.43	.53	.30	57,412	18	45.48
1970 ASM.....	9,175	27,170	64	2,000	4.31	.46	.56	.28	53,320	17	41.40
1969 ASM.....	8,760	23,570	67	1,976	3.99	.47	.56	.25	50,088	18	38.09
1968 ASM.....	8,334	23,250	67	1,960	3.88	.47	.55	.25	50,199	17	38.30
1967 Census.....	8,020	21,240	67	1,985	3.62	.46	.56	.25	46,327	17	35.00
1966 ASM.....	7,703	(NA)	66	2,066	3.38	.46	.56	(NA)	45,099	17	32.95
1965 ASM.....	7,277	(NA)	66	2,022	3.20	.47	.56	(NA)	40,646	18	30.45
1964 ASM.....	7,136	18,120	65	2,033	3.17	.46	.56	.26	38,105	19	28.72
1963 Census.....	6,954	18,020	65	2,038	3.11	.47	.57	.26	36,937	19	27.74
1962 ASM.....	6,861	16,650	63	2,033	3.08	.47	.57	.26	34,367	20	26.83
1961 ASM.....	6,638	(NA)	62	2,020	2.96	.47	.58	(NA)	32,471	20	25.97
1960 ASM.....	6,453	(NA)	62	1,998	2.88	.48	.59	(NA)	31,084	21	25.14
1959 ASM.....	6,248	(NA)	61	1,999	2.79	.45	.55	(NA)	31,510	20	25.70
1958 Census.....	6,131	(NA)	61	2,023	2.65	.47	.58	(NA)	28,970	21	23.32
INDUSTRY 2842.--POLISHES AND SANITATION GOODS											
1972 Census.....	8,645	(NA)	58	1,965	3.50	.41	.52	(NA)	44,546	19	38.96
INDUSTRY 2843.--SURFACE ACTIVE AGENTS											
1972 Census.....	10,362	(NA)	55	2,026	4.19	.56	.71	(NA)	30,362	35	27.21
1971 ASM.....	10,379	25,450	53	2,086	4.11	.56	.73	.43	26,258	40	23.74
1970 ASM.....	9,438	23,750	53	2,059	3.80	.57	.73	.41	25,516	37	23.33
1969 ASM.....	9,948	24,530	52	2,067	3.66	.54	.72	.42	26,103	38	24.42
1968 ASM.....	9,305	24,440	54	2,031	3.49	.57	.74	.44	23,983	39	21.77
1967 Census.....	8,687	24,790	53	2,073	3.24	.57	.74	.48	22,533	39	20.40
1966 ASM.....	9,185	(NA)	51	2,167	3.20	.57	.75	(NA)	22,533	41	20.22
1965 ASM.....	8,415	(NA)	51	2,103	3.09	.56	.74	(NA)	20,904	40	19.38
1964 ASM.....	7,943	22,600	53	2,063	2.91	.57	.75	.50	19,589	41	17.96
1963 Census.....	7,764	23,370	53	2,121	2.79	.57	.75	.54	18,427	42	16.51
1962 ASM.....	7,469	31,460	56	2,099	2.65	.61	.77	.67	19,142	39	16.21
1961 ASM.....	7,219	(NA)	57	2,092	2.54	.58	.73	(NA)	21,565	33	18.23
1960 ASM.....	7,015	(NA)	59	2,006	2.50	.57	.72	(NA)	20,294	35	17.06
1959 ASM.....	6,573	(NA)	61	2,083	2.34	.50	.62	(NA)	26,478	25	20.98
1958 Census.....	6,241	(NA)	59	2,020	2.39	.58	.73	(NA)	16,791	37	14.14
INDUSTRY 2844.--TOILET PREPARATIONS											
1972 Census.....	8,869	(NA)	66	1,912	3.60	.31	.41	(NA)	58,734	15	46.51
1971 ASM.....	8,270	13,050	60	1,989	3.32	.30	.41	.16	54,675	15	46.05
1970 ASM.....	7,740	11,390	61	1,990	3.02	.31	.42	.16	49,787	15	40.97
1969 ASM.....	7,102	8,940	63	1,946	2.79	.31	.42	.13	46,249	15	38.00
1968 ASM.....	6,738	8,780	63	1,946	2.62	.32	.42	.13	45,491	15	37.23
1967 Census.....	6,305	8,790	63	1,909	2.48	.32	.43	.15	41,597	15	34.44
1966 ASM.....	6,106	(NA)	62	1,965	2.45	.32	.42	(NA)	41,208	15	33.75
1965 ASM.....	5,712	(NA)	63	1,948	2.26	.32	.42	(NA)	39,882	14	32.36
1964 ASM.....	5,461	6,440	61	1,985	2.25	.31	.41	.11	38,951	14	31.97
1963 Census.....	5,336	6,120	63	1,969	2.18	.32	.42	.12	35,904	15	29.04
1962 ASM.....	5,175	5,710	62	1,940	1.99	.33	.44	.13	30,224	17	25.08
1961 ASM.....	5,183	(NA)	64	1,979	1.99	.32	.44	(NA)	29,452	18	23.21
1960 ASM.....	4,881	(NA)	64	1,953	1.91	.32	.44	(NA)	27,998	17	22.55
1959 ASM.....	4,731	(NA)	64	1,919	1.90	.32	.44	(NA)	27,002	18	22.07
1958 Census.....	4,546	(NA)	63	1,942	1.85	.34	.47	(NA)	23,674	19	19.37

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)	
New industry 2842.--Polishes and Sanitation Goods.....	1,108	243	25.1	1,118.1	1,857.0	(X)	(X)	(X)	(X)	(X)
Old industry 2819.--Industrial Inorganic Chemicals, N.E.C.	329	51	3.9	181.1	338.3	782	379	76.7	2,608.3	4,951.4
Old industry 2842.--Polishes and Sanitation Goods.....	779	192	21.2	937.0	1,518.7	868	207	22.0	978.6	1,535.7

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
2841-- SOAP AND OTHER DETERGENTS													
UNITED STATES.	642	199	31.5	341.6	20.4	40.9	205.9	2 038.8	1 373.7	3 394.4	90.7	30.3	1 403.7
NORTHEAST REGION	183	50	7.9	85.1	5.7	11.7	55.9	484.4	322.5	793.5	28.9	8.0	314.8
NEW ENGLAND DIVISION	39	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MASSACHUSETTS.	17	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
RHODE ISLAND E2	13	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.0
MIDDLE ATLANTIC DIVISION	144	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	59	15	2.2	24.6	1.6	3.3	16.4	82.7	87.2	169.1	(D)	2.1	61.4
NEW JERSEY	52	19	3.5	36.9	2.6	5.1	26.4	263.0	163.8	415.8	9.3	4.0	181.9
PENNSYLVANIA	33	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION	203	80	14.5	159.0	9.0	17.9	93.0	945.8	646.2	1 591.7	38.0	13.5	680.4
EAST NORTH CENTRAL DIVISION.	153	57	10.5	114.7	6.3	12.5	64.0	658.0	465.7	1 128.2	25.2	9.8	478.0
OHIO	43	17	3.0	34.4	1.9	3.9	21.1	207.6	120.7	328.4	10.7	FF	(D)
INDIANA	11	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS	49	24	3.1	34.1	1.8	3.7	19.0	176.5	173.4	360.8	(D)	2.8	146.8
MICHIGAN	31	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	17.0
WISCONSIN. E3	19	3	.2	2.1	.1	.2	1.1	5.0	5.0	10.0	(D)	.2	4.6
WEST NORTH CENTRAL DIVISION.	50	23	3.9	44.3	2.7	5.4	29.0	287.7	180.5	463.5	12.8	3.7	202.4
MINNESOTA.	15	5	.2	2.6	.1	.2	.7	6.1	6.4	12.4	.1	.3	5.0
IOWA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSOURI	21	9	1.8	20.3	1.4	2.9	15.0	119.9	84.7	203.1	5.0	1.5	84.3
NEBRASKA	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
KANSAS	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION	140	36	5.1	53.8	3.0	6.1	30.2	366.7	235.2	598.7	12.8	5.0	251.7
SOUTH ATLANTIC DIVISION.	66	23	3.6	39.3	2.2	4.4	22.4	239.9	156.9	394.3	8.6	3.6	174.5
MARYLAND	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CAROLINA E1	8	4	.2	1.5	.1	.2	.6	3.3	2.0	5.3	.1	.2	2.3
GEORGIA	17	10	1.3	12.4	.5	1.0	4.3	89.7	52.8	140.8	2.6	.8	48.0
FLORIDA E4	23	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.3
EAST SOUTH CENTRAL DIVISION.	22	5	.4	3.0	.2	.3	1.0	22.3	13.4	35.7	.4	BB	(D)
TENNESSEE. E1	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION.	52	8	1.1	11.5	.7	1.4	6.8	104.5	64.9	168.7	3.8	EE	(D)
LOUISIANA.	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	37	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	116	33	4.0	43.7	2.7	5.2	26.9	242.0	169.7	410.6	10.9	3.7	156.8
PACIFIC DIVISION	103	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	156.4
CALIFORNIA	93	30	3.8	42.1	2.6	5.1	26.2	238.5	165.9	403.3	(D)	3.6	153.3
2842-- POLISHES AND SANITATION GOODS													
UNITED STATES. E1	1 108	243	25.1	216.7	14.7	28.6	100.5	1 118.1	758.6	1 867.6	54.3	(NA)	(NA)
NORTHEAST REGION E1	338	80	7.7	63.4	4.8	9.4	31.0	258.1	194.2	449.2	11.0	(NA)	(NA)
NEW ENGLAND DIVISION E2	95	24	2.1	15.3	1.3	2.4	7.3	39.7	47.8	86.9	2.1	(NA)	(NA)
MASSACHUSETTS. E1	55	14	.9	8.6	.6	1.0	3.7	22.5	24.6	47.3	1.0	(NA)	(NA)
RHODE ISLAND	7	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. E5	22	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION E1	243	56	5.6	48.1	3.5	7.0	23.7	218.4	146.3	362.3	8.9	(NA)	(NA)
NEW YORK E2	120	24	2.2	18.6	1.4	2.9	9.5	66.9	48.7	115.0	3.1	(NA)	(NA)
NEW JERSEY	69	19	2.0	20.2	1.2	2.5	9.2	115.4	66.3	179.3	4.6	(NA)	(NA)
PENNSYLVANIA E1	54	13	1.3	9.2	.9	1.7	4.9	36.1	31.4	68.0	1.2	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2842-- POLISHES, SANITATION GOODS--CON.													
NORTH CENTRAL REGION	322	69	10.4	92.2	5.9	11.7	43.6	582.0	368.7	947.9	33.2	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . .	241	53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	54	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	97	25	3.8	28.8	2.6	5.0	16.2	187.5	150.6	335.0	(D)	(NA)	(NA)
MICHIGAN	E1 45	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	28	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION . . .	81	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	40	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	E4 14	3	.2	1.3	.1	.1	.5	2.8	3.0	5.3	.2	(NA)	(NA)
SOUTH REGION	E1 262	53	4.6	40.3	2.5	4.9	16.1	179.0	117.1	294.1	6.0	(NA)	(NA)
SOUTH ATLANTIC DIVISION	133	31	2.9	25.9	1.5	3.0	10.1	122.1	78.1	198.8	3.0	(NA)	(NA)
MARYLAND	21	9	.5	3.7	.3	.6	1.7	11.1	11.7	23.1	.7	(NA)	(NA)
SOUTH CAROLINA	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	31	14	1.6	15.8	.6	1.1	4.3	71.0	39.3	108.5	1.3	(NA)	(NA)
FLORIDA	E1 34	4	.3	2.3	.2	.4	1.1	10.7	8.6	19.3	.5	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . .	35	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	20	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . .	E3 94	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	E1 62	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	E1 186	41	2.3	21.1	1.4	2.7	9.8	99.0	78.6	176.3	4.2	(NA)	(NA)
MOUNTAIN DIVISION	E1 32	4	.2	2.1	.2	.3	.9	16.9	7.0	23.3	1.7	(NA)	(NA)
PACIFIC DIVISION	E1 154	37	2.1	19.0	1.2	2.4	8.9	82.0	71.6	153.1	2.5	(NA)	(NA)
CALIFORNIA	E1 139	36	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2843-- SURFACE ACTIVE AGENTS													
UNITED STATES	178	86	6.9	71.5	3.8	7.7	32.3	209.5	257.0	462.6	19.7	5.7	129.5
NORTHEAST REGION	93	38	2.8	30.3	1.4	3.0	12.6	76.2	86.2	161.9	4.1	3.0	56.4
NEW ENGLAND DIVISION	E2 31	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS	E2 19	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
RHODE ISLAND	E2 8	4	.2	2.1	.1	.2	.7	4.7	4.3	8.6	.2	.2	2.6
MIDDLE ATLANTIC DIVISION	62	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK	12	4	.2	2.3	.1	.2	.9	5.5	4.4	9.9	(D)	.2	3.3
NEW JERSEY	35	18	1.4	15.2	.7	1.4	6.4	40.7	50.4	90.8	2.6	1.8	32.7
PENNSYLVANIA	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CENTRAL REGION	23	10	1.3	13.3	.8	1.5	7.2	43.2	56.4	98.6	5.4	.7	16.5
EAST NORTH CENTRAL DIVISION . . .	19	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS	11	7	.8	9.6	.5	1.1	5.2	33.2	44.8	76.8	(D)	.5	12.5
MICHIGAN	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	49	29	2.3	22.8	1.3	2.6	10.4	75.3	94.8	167.7	9.6	1.7	50.9
SOUTH ATLANTIC DIVISION	34	22	2.0	19.8	1.1	2.3	9.2	65.9	80.9	144.6	8.6	1.6	46.9
DELAWARE	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MARYLAND	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA	14	11	.6	5.3	.2	.5	1.7	17.3	23.1	39.6	3.7	.4	10.3
SOUTH CAROLINA	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	4	3	.3	2.9	.2	.4	1.4	12.3	12.1	24.6	.3	BB	(D)
WEST SOUTH CENTRAL DIVISION . . .	E6 8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	E7 7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	13	9	.6	5.1	.3	.5	2.1	14.8	19.7	34.4	.6	.3	5.7
PACIFIC DIVISION	12	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.7
CALIFORNIA	11	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.7
2844-- TOILET PREPARATIONS													
UNITED STATES	646	205	48.3	428.3	31.9	61.1	219.7	2 836.9	1 242.6	4 057.3	71.4	41.5	1 730.6
NORTHEAST REGION	283	100	26.2	231.7	17.4	33.3	119.9	1 230.5	603.9	1 825.8	25.7	24.0	871.8
NEW ENGLAND DIVISION	26	13	4.6	42.5	2.9	5.6	22.7	346.1	166.8	517.4	3.2	3.1	232.9
NEW HAMPSHIRE	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CONNECTICUT	12	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION	257	87	21.5	189.2	14.5	27.8	97.2	884.4	437.1	1 308.3	22.5	20.9	638.9
NEW YORK	152	40	6.7	58.1	4.8	9.1	32.6	269.1	164.4	432.5	9.2	9.5	271.6
NEW JERSEY	74	42	13.8	126.7	9.0	17.7	62.3	587.1	261.9	835.6	13.0	10.6	342.6
PENNSYLVANIA	E1 31	5	1.0	4.5	.6	1.0	2.4	28.2	10.8	40.2	.2	.8	24.7
NORTH CENTRAL REGION	146	52	12.0	103.8	8.4	16.0	59.5	1 124.0	450.4	1 571.6	33.2	11.5	656.8
EAST NORTH CENTRAL DIVISION . . .	110	37	8.1	72.4	5.5	10.4	40.6	832.5	303.9	1 136.4	24.4	FF	(D)
OHIO	22	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	204.5
ILLINOIS	58	23	4.6	38.7	3.4	6.0	21.9	419.1	196.3	613.2	9.2	5.3	231.7
MICHIGAN	15	4	.3	2.0	.2	.3	1.0	10.3	5.3	15.7	.5	BB	(D)
WISCONSIN	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.5
WEST NORTH CENTRAL DIVISION . . .	36	15	3.9	31.4	2.9	5.6	18.9	291.5	146.5	435.1	8.8	FF	(D)
MINNESOTA	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	93.5
IOWA	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSOURI	14	5	1.4	9.0	1.2	2.4	6.5	70.2	21.0	91.0	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees¹	Value added by manufacture
	Total	With 20 employees or more	Number²	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
2844-- TOILET PREPARATIONS--CONTINUED													
SOUTH REGION	107	22	4.8	41.2	3.0	5.4	17.6	166.7	72.5	240.2	9.5	1.9	67.7
SOUTH ATLANTIC DIVISION.	49	12	3.8	34.7	2.4	4.2	14.5	129.3	55.6	184.8	8.8	1.1	40.9
MARYLAND	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
VIRGINIA	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA.	23	4	.5	5.1	.3	.6	1.7	17.0	5.0	21.4	.5	BB	(D)
EAST SOUTH CENTRAL DIVISION.	21	7	.8	4.9	.5	1.0	2.5	31.9	12.5	45.5	.5	.6	24.0
TENNESSEE.	13	6	.7	4.7	.5	.9	2.4	30.6	12.0	43.7	.4	CC	(D)
WEST SOUTH CENTRAL DIVISION. E3	37	3	.2	1.5	.1	.2	.6	5.4	4.5	9.9	.2	.2	2.8
TEXAS.	28	2	.2	1.3	.1	.2	.5	4.0	3.9	8.0	.2	.2	2.5
WEST REGION.	110	31	5.3	51.7	3.1	6.3	22.6	315.8	115.8	419.7	3.0	4.1	134.4
MOUNTAIN DIVISION.	9	3	.6	4.3	.5	1.0	3.2	45.9	15.0	58.5	.1	(NA)	(NA)
ARIZONA.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	101	28	4.7	47.4	2.6	5.3	19.4	269.9	100.8	361.2	2.8	FF	(D)
CALIFORNIA	93	25	4.6	46.9	2.6	5.2	19.2	268.4	100.0	359.0	2.8	3.9	127.1

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Soap and other detergents (SIC 2841)	Polishes and sanitation goods (SIC 2842)	Surface active agents (SIC 2843)	Toilet preparations (SIC 2844)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	83	81	81	94
COVERAGE RATIO ² DO	90	83	60	86
ESTABLISHMENTS, TOTAL NUMBER	642	1 108	178	646
WITH 1 TO 19 EMPLOYEES DO	443	865	92	441
WITH 20 TO 99 EMPLOYEES DO	142	195	71	102
WITH 100 EMPLOYEES OR MORE DO	57	48	15	103
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	31.5	25.1	6.9	48.3
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	341.6	216.9	71.5	428.3
PRODUCTION WORKERS:				
AVERAGE FOR YEAR 1,000	20.4	14.7	3.8	31.9
MARCH DO	20.0	14.4	3.6	29.3
MAY DO	20.1	14.6	3.6	31.1
AUGUST DO	20.8	14.9	3.9	32.9
NOVEMBER DO	20.7	14.9	3.9	34.6
MAN-HOURS MILLIONS	40.9	28.6	7.7	61.1
JANUARY-MARCH DO	10.3	7.0	1.9	14.2
APRIL-JUNE DO	10.2	7.2	1.9	15.1
JULY-SEPTEMBER DO	10.3	7.2	1.9	15.5
OCTOBER-DECEMBER DO	10.1	7.2	2.0	16.2
WAGES MILLION DOLLARS	205.9	100.5	32.3	219.7
COST OF MATERIALS, ETC., TOTAL DO	1 373.7	758.6	257.0	1 242.6
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED DO	1 170.9	687.9	225.4	1 089.8
COST OF REALES DO	164.3	51.0	21.6	86.2
FUELS CONSUMED DO	14.6	5.5	6.0	3.8
PURCHASED ELECTRIC ENERGY DO	9.9	6.9	3.2	8.2
CONTRACT WORK DO	14.0	7.3	.9	54.6
VALUE OF SHIPMENTS, INCLUDING REALES DO	3 394.4	1 867.6	462.6	4 057.3
VALUE OF REALES DO	264.1	91.7	29.5	168.0
VALUE ADDED BY MANUFACTURE DO	2 038.8	1 118.1	209.5	2 836.9
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL DO	348.7	139.5	56.3	414.8
FINISHED PRODUCTS DO	195.9	66.1	33.2	189.0
WORK IN PROCESS DO	36.0	9.6	3.9	32.1
MATERIALS, SUPPLIES, FUEL, ETC. DO	117.0	63.8	19.1	193.7
END OF YEAR, TOTAL DO	381.7	151.6	61.4	469.5
FINISHED PRODUCTS DO	209.7	76.2	36.8	212.3
WORK IN PROCESS DO	40.4	8.7	4.4	30.9
MATERIALS, SUPPLIES, FUEL, ETC. DO	131.8	66.9	20.2	226.3
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	91.9	55.5	27.4	74.0
NEW PLANT AND EQUIPMENT, TOTAL DO	90.7	54.3	19.7	71.4
NEW STRUCTURES AND ADDITIONS TO PLANT DO	12.3	12.5	4.1	28.5
NEW MACHINERY AND EQUIPMENT DO	78.4	41.8	15.6	42.8
USED PLANT AND EQUIPMENT DO	1.1	1.2	7.7	2.6

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
2841-- SOAP AND OTHER DETERGENTS											
ESTABLISHMENTS, TOTAL.	642	31.5	341.6	20.4	40.9	205.9	2 038.8	1 373.7	3 394.4	90.7	381.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	268	.5	4.2	.4	.6	2.6	17.4	13.6	30.9	.8	3.1
5 TO 9 EMPLOYEES E5	80	.5	4.8	.3	.6	2.4	13.7	12.9	26.4	.6	2.8
10 TO 19 EMPLOYEES E1	95	1.3	12.1	.7	1.4	5.1	39.5	44.5	83.9	1.6	7.0
20 TO 49 EMPLOYEES	101	3.2	31.7	1.7	3.6	14.0	133.0	107.2	234.8	5.1	24.7
50 TO 99 EMPLOYEES	41	2.9	27.4	1.5	2.9	10.9	131.9	112.2	243.1	3.9	18.1
100 TO 249 EMPLOYEES	24	3.6	33.9	2.2	4.4	18.9	280.9	168.4	448.6	12.0	41.2
250 TO 499 EMPLOYEES	18	6.3	71.8	4.6	9.6	49.9	438.5	286.4	719.2	28.9	86.9
500 TO 999 EMPLOYEES	11	7.7	95.5	5.3	10.8	64.0	576.5	394.0	977.4	24.5	116.1
1,000 TO 2,499 EMPLOYEES	4	5.5	60.2	3.7	7.0	38.1	407.3	234.6	630.0	13.4	81.7
ESTABS. COVERED BY ADMIN. RECORD ¹ .	235	.5	4.8	.4	.7	3.0	17.0	14.4	31.4	.7	3.3
2842-- POLISHES AND SANITATION GOODS											
ESTABLISHMENTS, TOTAL. E1	1 108	25.1	216.9	14.7	28.6	100.5	1 118.1	758.6	1 867.6	54.3	151.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	549	.9	7.4	.7	1.0	3.5	26.9	19.8	46.6	6.0	4.9
5 TO 9 EMPLOYEES E5	168	1.1	9.5	.7	1.3	4.4	35.4	25.2	60.3	3.2	5.8
10 TO 19 EMPLOYEES E3	148	2.0	17.1	1.2	2.4	7.9	57.1	47.1	103.2	2.4	10.3
20 TO 49 EMPLOYEES E1	140	4.3	38.8	2.6	4.9	17.4	176.4	150.5	327.3	6.1	24.3
50 TO 99 EMPLOYEES	55	3.8	32.2	2.4	4.6	15.8	157.9	125.3	281.4	5.4	23.8
100 TO 249 EMPLOYEES	29	4.4	37.7	2.7	5.4	17.7	253.6	154.3	404.6	8.8	34.3
250 TO 499 EMPLOYEES E1	13	4.0	35.8	2.1	4.4	16.0	139.8	91.9	230.9	16.3	23.2
500 TO 999 EMPLOYEES	5	4.5	38.4	2.4	4.7	17.8	271.0	144.4	413.1	6.2	24.9
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	517	1.3	11.2	.9	1.5	5.2	39.2	29.2	68.4	2.0	7.3
2843-- SURFACE ACTIVE AGENTS											
ESTABLISHMENTS, TOTAL.	178	6.9	71.5	3.8	7.7	32.3	209.5	257.0	462.6	19.7	61.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	42	.1	1.0	.1	.1	.4	3.0	3.1	6.1	.2	.6
5 TO 9 EMPLOYEES E4	24	.2	1.8	.1	.2	.7	5.7	6.0	11.7	.3	1.3
10 TO 19 EMPLOYEES E1	26	.4	3.6	.2	.4	1.5	10.4	14.0	24.6	.6	2.6
20 TO 49 EMPLOYEES	46	1.5	17.0	.8	1.7	6.7	47.5	65.9	112.4	5.9	11.9
50 TO 99 EMPLOYEES	25	1.8	17.5	.9	1.8	7.1	54.7	63.9	117.3	3.9	15.5
100 TO 249 EMPLOYEES	13	3.0	30.6	1.8	3.5	15.6	88.2	104.2	190.6	8.8	29.4
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	42	.1	1.3	.1	.2	.6	4.3	5.3	9.7	.3	1.2
2844-- TOILET PREPARATIONS											
ESTABLISHMENTS, TOTAL.	646	48.3	428.3	31.9	61.1	219.7	2 836.9	1 242.6	4 057.3	71.4	469.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	296	.4	3.4	.3	.5	1.6	15.4	6.5	22.0	3.1	2.7
5 TO 9 EMPLOYEES E6	77	.5	4.3	.3	.6	1.9	15.2	8.8	24.0	.3	3.0
10 TO 19 EMPLOYEES E3	68	.9	7.6	.6	1.1	3.3	28.4	16.3	44.5	1.0	4.7
20 TO 49 EMPLOYEES E1	67	2.1	15.9	1.4	2.6	7.4	70.3	54.9	124.2	1.3	18.2
50 TO 99 EMPLOYEES	35	2.4	18.7	1.6	2.9	9.5	75.1	50.3	126.9	3.0	16.1
100 TO 249 EMPLOYEES	48	7.9	56.1	5.5	9.9	29.6	333.0	187.9	510.4	7.9	73.5
250 TO 499 EMPLOYEES	28	10.0	90.7	6.4	12.1	44.0	595.1	304.8	893.4	15.3	113.2
500 TO 999 EMPLOYEES	20	14.6	139.4	9.3	18.0	69.7	969.6	362.6	1 319.4	19.7	143.2
1,000 TO 2,499 EMPLOYEES	7	9.5	92.2	6.5	13.4	52.6	734.8	250.5	992.5	19.8	95.0
ESTABS. COVERED BY ADMIN. RECORD ¹ .	280	.7	5.3	.5	.8	2.5	21.0	9.3	30.3	.5	3.8

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2841	SOAP AND OTHER DETERGENTS										
	ENTIRE INDUSTRY	642	31.5	341.6	20.4	40.9	205.9	2 038.8	1 373.7	3 394.4	90.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	561	20.6	233.8	14.0	28.6	149.3	1 363.0	1 000.8	2 365.4	71.8
28411	SOAP AND DETERGENTS, NONHOUSEHOLD (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	219	8.5	81.4	4.2	8.2	33.1	432.9	286.9	713.6	15.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	127	4.2	39.8	2.1	4.2	16.7	195.8	152.1	348.2	10.6
28412	HOUSEHOLD DETERGENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	67	18.3	216.2	13.2	26.3	146.9	1 462.9	942.1	2 380.0	69.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	39	6.6	79.2	5.2	10.5	59.1	533.8	390.5	920.0	22.9
28413	SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	17	2.9	27.2	2.1	4.1	17.1	86.6	96.1	196.4	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	12	1.9	19.7	1.3	2.6	11.3	60.1	84.7	158.5	1.6
2842	POLISHES AND SANITATION GOODS										
	ENTIRE INDUSTRY	1 108	25.1	216.9	14.7	28.6	100.5	1 118.1	758.6	1 867.6	54.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	995	16.6	139.6	10.3	19.8	70.5	825.5	535.0	1 355.8	47.6
28422	HOUSEHOLD BLEACHES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	51	1.9	17.2	1.3	2.8	10.4	131.3	115.3	247.8	4.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	22	.7	5.4	.4	.9	3.1	33.8	29.8	63.4	.9
28423	SPECIALTY CLEANING AND SANITATION PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	167	12.1	104.3	7.2	14.4	48.6	541.6	376.9	910.9	28.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	87	3.8	29.0	2.6	4.9	15.6	216.9	130.3	344.4	20.1
28424	POLISHING PREPARATIONS AND RELATED PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	99	6.2	56.6	3.1	6.2	23.5	321.2	174.4	493.6	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	54	1.9	17.6	1.1	2.0	6.4	65.1	51.2	114.8	2.0
2843	SURFACE ACTIVE AGENTS										
	ENTIRE INDUSTRY	178	6.9	71.5	3.8	7.7	32.3	209.5	257.0	462.6	19.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	149	4.3	45.1	2.2	4.6	18.6	138.0	175.0	310.4	13.3
2844	TOILET PREPARATIONS										
	ENTIRE INDUSTRY	646	48.3	428.3	31.9	61.1	219.7	2 836.9	1 242.6	4 057.3	71.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	610	41.1	371.0	26.7	51.4	187.1	2 634.5	1 084.0	3 701.2	61.7
28441	SHAVING PREPARATIONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28442	PERFUMES, TOILET WATER, AND COLOGNES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	52	6.8	60.7	4.4	8.3	29.7	303.1	165.6	468.2	8.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	30	1.6	15.1	.9	1.8	6.5	82.2	46.3	127.9	1.1
28443	HAIR PREPARATIONS (INCLUDING SHAMPOOS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	76	10.9	98.9	7.0	12.5	44.2	619.4	387.2	1 002.1	10.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	51	7.3	69.1	4.6	8.1	30.6	489.7	280.2	766.6	8.0
28444	DENTIFRICES, MOUTHWASHES, GARGLES, RINSES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	2.9	27.7	1.8	3.7	15.2	353.4	114.7	463.1	9.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28445	OTHER COSMETICS AND TOILET PREPARATIONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	113	25.1	222.3	16.9	33.5	121.0	1 481.1	537.9	2 005.1	37.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	63	9.5	83.4	6.0	12.0	44.4	417.2	165.4	586.8	8.3

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
2841	Soap and other detergents.....1972..	3,394.4	2,579.5	537.2	277.7	83	2,851.8	2,579.5	272.3	90
	.....1967..	2,593.4	1,990.2	405.7	197.5	83	2,200.8	1,990.2	210.6	90
2842	Polishes and sanitation goods.....1972..	1,867.6	1,436.7	331.0	99.9	81	1,735.8	1,436.7	299.1	83
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2843	Surface active agents.....1972..	462.6	349.9	80.3	32.4	81	580.7	349.9	230.8	60
	.....1967..	294.2	219.1	59.2	15.9	79	403.2	219.1	184.1	54
2844	Toilet preparations.....1972..	4,057.3	3,635.7	248.6	173.0	94	4,247.1	3,635.7	611.4	86
	.....1967..	2,515.6	2,247.3	137.9	130.4	94	2,794.2	2,247.3	546.9	80

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Soap and other detergents (SIC 2841)	Polishes and sanitation goods (SIC 2842)	Surface active agents (SIC 2843)	Toilet preparations (SIC 2844)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	3,394.4	1,867.6	462.6	4,057.3	(X)
2841-	Soap and other detergents.....	2,851.8	2,579.5	112.9	10.1	49.3	100.0
28411	Soap and detergents, nonhousehold.....	652.5	506.4	74.3	(over 2)	(under 2)	61.8
28412	Household detergents.....	1,633.9	1,585.0	36.3	-	(2-5)	(5-10)
28413	Soaps, except specialty cleaners, household.....	412.0	355.6	1.1	-	44.8	10.5
28414	Glycerin, natural.....	50.4	37.3	-	(under 2)	(under 2)	(over 2)
28410	Soaps and other detergents.....	103.0	95.2	1.2	-	-	6.6

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Soap and other detergents (SIC 2841)	Polishes and sanitation goods (SIC 2842)	Surface active agents (SIC 2843)	Toilet preparations (SIC 2844)	Other industries
	Shipments and miscellaneous receipts--Continued						
2842-	Polishes and sanitation goods.....	1,735.8	165.3	1,436.7	4.9	24.3	104.6
28422	Household bleaches.....	235.5	22.0	191.4	(under 2)	-	(20-50)
28423	Specialty cleaning and sanitation products.....	898.9	110.1	712.2	(under 2)	23.1	(50-100)
28424	Polishing preparations and related products.....	391.8	32.8	328.5	(2-5)	1.2	(20-50)
28420	Polishes and sanitation goods.....	209.6	0.4	204.5	-	-	4.7
2843-	Surface active agents.....	580.7	19.0	(2-5)	349.9	(2-5)	207.3
2844-	Toilet preparations.....	4,247.1	172.5	46.3	(under 2)	3,635.7	(250-500)
28441	Shaving preparations.....	250.7	(10-20)	12.1	-	181.9	(20-50)
28442	Perfumes, toilet water, and colognes.....	677.0	27.1	(under 2)	-	616.4	(20-50)
28443	Hair preparations (including shampoos).....	1,065.1	20.3	12.1	(under 2)	956.0	(50-100)
28444	Dentifrices, including mouthwashes, gargles, and rinses.....	484.6	(over 2)	-	-	333.0	(50-100)
28445	Other cosmetics and toilet preparations.....	1,673.6	13.6	(20-50)	-	1,461.5	(100-200)
28440	Toilet preparations.....	96.0	(under 2)	-	-	87.0	(5-10)
	Other product shipments by 4-digit product group:						
2045-	Blended and prepared flour.....	(X)	(2-5)	-	-	-	(X)
2047-	Dog, cat, and other pet food.....	(X)	(2-5)	-	-	(under 2)	(X)
2077-	Animal and marine fats and oils.....	(X)	(over 2)	(under 2)	(under 2)	-	(X)
2087-	Flavoring extracts and sirups, n.e.c.....	(X)	(2-5)	-	-	(2-5)	(X)
2095-	Roasted coffee.....	(X)	(5-10)	-	-	-	(X)
2099-	Food preparations, n.e.c.....	(X)	(over 2)	(under 2)	-	(under 2)	(X)
2211-	Weaving mills, cotton.....	(X)	-	-	-	(2-5)	(X)
2392-	Housefurnishings, n.e.c.....	(X)	-	(over 2)	-	6.0	(X)
2819-	Industrial inorganic chemicals, n.e.c.....	(X)	13.5	(under 2)	(under 2)	-	(X)
2821-	Plastics materials and resins.....	(X)	(under 2)	-	9.0	-	(X)
2834-	Pharmaceutical preparations.....	(X)	(5-10)	(5-10)	(2-5)	89.6	(X)
2851-	Paints and allied products.....	(X)	7.8	(under 2)	(under 2)	(under 2)	(X)
2869-	Industrial organic chemicals, n.e.c.....	(X)	36.6	2.2	29.6	8.8	(X)
2879-	Agricultural chemicals, n.e.c.....	(X)	14.6	71.6	(under 2)	(under 2)	(X)
2891-	Adhesives and sealants.....	(X)	(2-5)	4.0	(under 2)	(under 2)	(X)
2899-	Chemical preparations, n.e.c.....	(X)	33.4	37.4	8.9	8.3	(X)
2911-	Petroleum refining.....	(X)	-	(under 2)	(2-5)	-	(X)
2992-	Lubricating oils and greases.....	(X)	2.7	4.9	-	-	(X)
3079-	Miscellaneous plastics products.....	(X)	-	6.3	(under 2)	(over 2)	(X)
3842-	Surgical appliances and supplies.....	(X)	-	-	-	(over 2)	(X)
3991-	Brooms and brushes.....	(X)	(5-10)	(under 2)	-	(under 2)	(X)
3999-	Manufacturing industries, n.e.c.....	(X)	-	(under 2)	-	(2-5)	(X)
	Miscellaneous receipts.....	(X)	277.7	99.9	32.4	173.0	(X)
99989	Resales.....	(X)	264.1	91.7	29.5	167.9	(X)
99980	Other miscellaneous receipts.....	(X)	12.4	3.4	.1	.6	(X)
93000	Contract work.....	(X)	1.2	4.8	2.8	4.5	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries		
	Listing of the other industries with over \$2 million shipments of the primary product			Listing of the other industries with over \$2 million shipments of the primary product--Continued			
2841-	2079 Shortening and cooking oils.....	(over 2)	2843-	2079 Shortening and cooking oils.....	(over 2)		
	2392 Housefurnishings, n.e.c.....	(over 2)		2812 Alkalies and chlorine.....	(5-10)		
	2399 Fabricated textile products, n.e.c.....	(5-10)		2819 Industrial inorganic chemicals, n.e.c.....	(2-5)		
	2819 Industrial inorganic chemicals, n.e.c.....	(5-10)		2821 Plastics materials and resins.....	17.4		
	2821 Plastics materials and resins.....	(over 2)		2833 Medicinals and botanicals.....	(over 2)		
	2834 Pharmaceutical preparations.....	5.2					
	2851 Paints and allied products.....	11.8		2865 Cyclic crudes and intermediates.....	21.1		
	2869 Industrial organic chemicals, n.e.c.....	(5-10)		2869 Industrial organic chemicals, n.e.c.....	83.3		
	2899 Chemical preparations, n.e.c.....	16.6		2879 Agricultural chemicals, n.e.c.....	(2-5)		
				2891 Adhesives and sealants.....	(2-5)		
2842-	2035 Pickles, sauces, and salad dressings.....	(2-5)		2899 Chemical preparations, n.e.c.....	18.8		
	2046 Wet corn milling.....	(over 2)					
	2392 Housefurnishings, n.e.c.....	4.3		2911 Petroleum refining.....	23.0		
	2647 Sanitary paper products.....	(2-5)		2992 Lubricating oils and greases.....	(over 2)		
	2812 Alkalies and chlorine.....	(10-20)		3069 Fabricated rubber products, n.e.c.....	(over 2)		
	2819 Industrial inorganic chemicals, n.e.c.....	2.5					
	2851 Paints and allied products.....	5.8	2844-	2087 Flavoring extracts and sirups, n.e.c.....	7.2		
	2869 Industrial organic chemicals, n.e.c.....	(10-20)		2834 Pharmaceutical preparations.....	245.1		
	2879 Agricultural chemicals, n.e.c.....	2.0		2869 Industrial organic chemicals, n.e.c.....	22.1		
	2899 Chemical preparations, n.e.c.....	10.8		2899 Chemical preparations, n.e.c.....	(over 2)		
	3589 Service industry machinery, n.e.c.....	(over 2)		3421 Cutlery.....	(over 2)		
	3635 Household vacuum cleaners.....	(over 2)		3842 Surgical appliances and supplies.....	(over 2)		
				3911 Jewelry, precious metal.....	(over 2)		

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2841- --	SOAP AND OTHER DETERGENTS, TOTAL.....	.....	(X)	2,851.8	(X)	2,200.8
28411 --	Soap and Detergents, Nonhousehold ¹.....	.....	(X)	652.5	(X)	417.9
	Soaps, except specialty cleaners, nonhousehold (bulk products and products sold in containers holding over 25 pounds or over 1 gallon, for industrial, institutional, or commercial use regardless of package size):					
28411 12	Chips, flakes, granulated, powdered, and sprayed, including washing powders.....	Million lb....	180.5	27.5	155.3	19.2
28411 14	Liquid (potash and other, excluding shampoos).....	Million gal... (S)		23.0	(S)	17.2
28411 16	Mechanics' hand soaps, pastes and bars, except waterless....	Million lb....	20.4	4.1	22.6	3.9
28411 18	Other soaps, nonhousehold.....	...do.....	87.6	22.2	(X)	9.1
	Alkaline detergents, nonhousehold (bulk products and products sold in containers holding over 25 pounds or over 1 gallon, for industrial, institutional, or commercial use regardless of package size):					
	Machine dishwashing compounds:					
28411 21	Liquid.....	Million gal. (fin. wt.)...	(S)	29.3	(S)	² 20.2
28411 23	Dry.....	Million lb. (fin. wt.)...	438.5	104.8	288.6	60.3
	Other alkaline detergents, nonhousehold:					
28411 25	Liquid.....	Million gal. (fin. wt.)...	(S)	55.3	(S)	24.7
	Dry.....	Million lb. (fin. wt.)...				
28411 26	Hard surface cleaners.....	...do.....	629.4	111.5	389.6	58.0
28411 28	Other alkaline detergents.....	...do.....				
	Synthetic organic detergents, nonhousehold (bulk products and products sold in containers holding over 25 pounds or over 1 gallon, and for industrial, institutional, or commercial use regardless of package size):					
	Dry (powders):					
28411 41	Anionic base.....	...do.....	207.1	42.2	281.2	38.5
28411 43	Nonionic base or other base.....	...do.....	73.2	13.1	115.2	19.5
	Liquid:					
28411 45	Anionic base.....	Million gal. (fin. wt.)...	73.2	44.7	(S)	38.6
28411 47	Nonionic base or other base.....	...do.....	31.1	62.2	(S)	34.7
28411 48	Scouring cleansers, with or without abrasives.....	Million lb. (fin. wt.)...	53.3	7.2	(S)	4.7
	Acid-type cleaners, containing an acid and/or wetting agent, and/or inorganic fillers:					
	Dairy, farm, and food plant cleaners, sanitizers, etc:					
28411 61	Halogenated, dry.....	...do.....	15.5	3.4	} ⁹ 81.3	15.6
28411 63	Nonhalogenated, dry.....	...do.....	18.6	3.6		
28411 65	Halogenated, liquid.....	Million gal. (fin. wt.)...	3.6	4.4		
28411 67	Nonhalogenated, liquid.....	...do.....	7.0	12.8		
	Metal cleaners:					
28411 73	Dry.....	Million lb. (fin. wt.)...	54.7	10.4	} ⁹ 135.2	25.0
28411 77	Liquid.....	Million gal. (fin. wt.)...	(S)	31.6		
28411 79	All other.....	Million lb. (fin. wt.)...	36.0	10.3	30.5	7.1
28411 00	Soap and detergents, nonhousehold, n.s.k.....	.....	(X)	29.0	(X)	21.6
28412 --	Household Detergents ¹.....	.....	(X)	1,633.9	(X)	1,329.7
	Alkaline detergents, household (products sold in containers holding 25 pounds or less and 1 gallon or less, and for use by family units):					
	Machine dishwashing compounds:					
28412 11	Liquid.....	Million gal.	4.8	1.4	(X)	(Z)
28412 13	Dry (powders).....	Million lb. (fin. wt.)...	330.2	85.5	172.1	45.9
	Other alkaline detergents, household:					
28412 15	Liquid.....	Million gal. (fin. wt.)...			(S)	21.0
28412 19	Dry (powders).....	Million lb. (fin. wt.)...	(S)	90.4	{	150.7

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2841- -- 28412 --	SOAP AND OTHER DETERGENTS--Continued Household Detergents--Continued					
	Synthetic organic detergents, household (products sold in containers holding 25 pounds or less and 1 gallon or less, for use by family units):					
	Dry (solid or powders):					
28412 21	Light-duty.....	Million lb. (fin. wt.)...	197.1	78.8	(S)	79.1
	Heavy-duty:					
28412 24	Phosphate based.....	...do.....	3,445.9	808.1	3,347.5	708.7
28412 26	Phosphate free.....	...do.....	266.4	44.8		
28412 28	Hard surface cleaners.....	...do.....	7.8	2.0		
	Liquid, excluding shampoos:					
28412 31	Light-duty.....	Million gal. (fin. wt.)...	(S)	299.0	(S)	238.9
28412 35	Heavy-duty.....	...do.....	(D)	(D)	(S)	44.5
	Hard surface cleaners:					
28412 41	Aerosol.....	...do.....	(S)	.7	(S)	88.0
28412 43	Other liquid.....	...do.....	(D)	(D)		
28412 53	Scouring cleansers, with or without abrasives.....	Million lb. (fin. wt.)...	(D)	(D)	463.9	68.4
28412 61	Presoaks.....	.....	(X)	33.4	(NA)	(NA)
28412 00	Household detergents, n.s.k.....	.....	(X)	7.6	(X)	7.7
28413 --	Soaps, Except Specialty Cleaners, Household ¹.....	.....	(X)	412.0	(X)	332.0
	Soaps, except specialty cleaners, household (products sold in containers holding 25 pounds or less and 1 gallon or less, for use by family units):					
	Bars, excluding medical and medicated mechanics' hand soap and shaving soap:					
28413 11	Toilet.....	Million lb....	768.2	330.2	669.4	253.3
28413 13	Laundry and other household soaps (bars).....	...do.....	13.9	4.2	69.4	20.4
28413 22	Chips, flakes, granulated, powdered, and sprayed, including washing powders.....	...do.....	152.2	45.2	139.2	38.5
28413 51	Medical and medicated soaps (containing medicinal or germicidal additives of therapeutic value, but not soaps containing germicidal or other additives only as a deodorant), bars, liquid, and paste.....	.....	(X)	(³)	(X)	(³)
28413 61	Mechanics' hand soaps, all types, except waterless.....	Million lb....	21.4	9.2	32.4	8.3
28413 98	Other soaps, household.....	.....	(X)	³ 13.4	(X)	³ 5.7
28413 00	Soaps, except specialty cleaners, household, n.s.k.....	.....	(X)	9.7	(X)	5.8
28414 --	Glycerin, natural ⁴ s.....	.....	(X)	50.4	(X)	48.1
28414 11	Crude, 100% basis.....	Million lb....	60.6	8.5	53.1	10.8
28414 31	High-gravity, dynamite, and yellow distilled, 100% basis.....	...do.....	25.4	5.2	53.1	11.6
28414 51	Chemically pure, 100% basis.....	...do.....	127.9	27.1	107.4	25.7
28414 00	Glycerin, natural, n.s.k.....	.....	(X)	9.6	(NA)	(NA)
28410 00	Soap and other detergents, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	71.6	(X)	57.5
28410 02	Soap and other detergents, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	31.4	(X)	15.7
		Unit of measure	1972		1967	
			Production for all purposes (quantity)	Total product shipments including interplant transfers	Production for all purposes (quantity)	Total product shipments including interplant transfers
				Quantity Value (million dollars)		Quantity Value (million dollars)
2842- --	POLISHES AND SANITATION GOODS, TOTAL.....	.....	(X)	(X) 1,735.8	(X)	(X) 1,116.9
28422 --	Household Bleaches.....	.....	(X)	(X) 235.5	(X)	(X) 169.5
28422 43	Household liquid bleaches (sodium hypochlorite, etc.):					
	As reported in the census of manufactures.....	.....	(X)	(X) 188.4	(X)	(X) (X)
	As reported in Current Industrial Reports, series M28A ⁶.....	.....	(X)	(X) 191.6	(X)	(X) 151.6
28422 53	Household dry bleaches (inorganic base):					
	As reported in the census of manufactures.....	.....	(X)	(X) 38.6	(X)	(X) (X)
	As reported in Current Industrial Reports, series M28A ⁶.....	.....	(X)	(X) 37.0	(X)	(X) 17.9
28422 00	Household bleaches, n.s.k.....	.....	(X)	(X) 8.5	(X)	(X) -
28423 --	Specialty Cleaning and Sanitation Products.....	.....	(X)	(X) 898.9	(X)	(X) 528.0
28423 11	Glass window cleaning preparations.....	.....	(X)	(X) 46.9	(X)	(X) 30.7
28423 21	Oven cleaners.....	.....	(X)	(X) 19.5	(X)	(X) 16.7
28423 31	Toilet bowl cleaner and drain pipe solvents.....	.....	(X)	(X) 171.5	(S)	(S) 67.1
28423 32	Disinfectants, for uses other than agricultural.....	.....	(X)	(X) 152.8	(X)	(X) 33.6
28423 41	Wallpaper, window shade, and wall cleaner.....	.....	(X)	(X) 8.9	(X)	(X) (7)
28423 51	Rug and upholstery cleaners, consumer type preparations.....	.....	(X)	(X) 33.7	(X)	(X) 14.3
28423 71	Household ammonia.....	.....	(X)	(X) 14.8	(X)	(X) 11.9

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes (quantity)	Total product shipments including interplant transfers		Production for all purposes (quantity)	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2842- --	POLISHES AND SANITATION GOODS--Continued							
28423 --	Specialty Cleaning and Sanitation Products--Continued							
	Deodorants, nonpersonal:							
28423 81	Aerosol type.....		(X)	(X)	71.7	(X)	(X)	38.4
28423 85	Other.....		(X)	(X)	30.7	(X)	(X)	12.6
28423 93	Dry cleaning spotting preparations (liquid).....	Mil. gal..	(X)	(X)	5.7	(S)	(S)	4.6
	Household laundry and ironing aids:							
28423 94	Fabric softeners and rinses.....		(X)	(X)	113.7	(X)	(X)	55.3
	Laundry starch preparations (resin, starch, etc.):							
28423 95	Aerosol.....		(X)	(X)	43.1	(X)	(X)	70.8
28423 96	Other liquid.....		(X)	(X)	11.0	(X)	(X)	12.1
28423 97	Dry.....		(X)	(X)	3.3	(X)	(X)	8.1
28423 91	Ironing aids, for fabric.....		(X)	(X)	130.3	(X)	(X)	7118.0
28423 92	Ironing aid, for iron.....		(X)	(X)	41.5	(X)	(X)	33.6
28423 98	Other specialty detergents, including sweeping compounds and waterless hand cleaners.....		(X)	(X)		(X)	(X)	
28423 00	Specialty cleaning and sanitation products, n.s.k.....		(X)	(X)		(X)	(X)	
28424 --	Polishing Preparations and Related Products.....		(X)	(X)	391.8	(X)	(X)	324.5
28424 11	Automobile body polish and cleaners.....		(X)	(X)	39.3	(X)	(X)	33.7
28424 15	Furniture polish and cleaners.....		(X)	(X)	104.4	(X)	(X)	60.2
	Floor polish:							
28424 21	Water emulsion.....	Mil. gal..	(S)	52.3	119.0	(S)	(S)	113.0
28424 23	Liquid (other than water emulsion).....	..do.....	(S)	11.6	22.0	(S)	5.4	14.4
28424 25	Other than liquid form, including cake and paste.....	Mil. lb....	27.2	25.7	10.5	(S)	(S)	11.0
	Shoe polishes and cleaners:							
28424 42	Liquid.....	Mil. gal..	(S)	(S)	10.8	(S)	(S)	16.9
28424 44	Paste and cake.....	Mil. lb....	(S)	(S)	18.5	(S)	(S)	15.7
	Leather dressings and finishes, excluding shoe polish:							
28424 61	Leather blackings and stains.....	..do.....	(S)	(S)	11.2	(S)	(S)	10.9
28424 65	Other leather dressings and stains.....	..do.....	(S)	(S)	19.1	(S)	(S)	17.1
28424 98	Related products, including metal polish and polishing cloths and papers.....		(X)	(X)	14.2	(X)	(X)	9.5
28424 00	Polishing preparations and related products, n.s.k.....		(X)	(X)	22.8	(X)	(X)	22.1
28420 00	Polishes and sanitation goods, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	139.6	(X)	(X)	68.3
28420 02	Polishes and sanitation goods, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	70.0	(X)	(X)	26.6
2843- --	SURFACE ACTIVE AGENTS, TOTAL.....		(X)	(X)	580.7	(X)	(X)	403.2
28430 --	Surface Active and Finishing Agents.....		(X)	(X)	518.5	(X)	(X)	373.5
	Assistants and finishes, textile and leather:							
28430 41	Assistants.....	Mil. lb....	(S)	217.5	57.1	(S)	240.8	51.7
28430 71	Finishes.....	..do.....	(S)	473.8	96.7	(S)	211.6	55.5
28430 85	Bulk surface active agents (includes all amphoteric, anionic, cationic, and nonionic bulk surface active agents that reduce the surface tension of solvents and are used chiefly as detergents, dispersing agents, emulsifiers, foaming agents, or wetting agents).....		(X)	(X)	364.8	(X)	(X)	266.3
28430 00	Surface active agents, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	52.5	(X)	(X)	26.9
28430 02	Surface active agents, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	9.7	(X)	(X)	2.8
		Unit of measure	Total product shipments including interplant transfers					
			1972		1967			
			Quantity	Value (million dollars)	Quantity	Value (million dollars)		
2844- --	TOILET PREPARATIONS, TOTAL.....		(X)	4,247.1	(X)	2,794.2		
28441 --	Shaving Preparations.....		(X)	250.7	(X)	178.7		
	Shaving soap and cream:							
28441 33	Tube and jar.....	Million lb....	(S)	4.3	6.6	6.7		
28441 37	Aerosols.....	..do.....	(S)	74.3	(S)	65.1		
28441 41	Stick, powder, or cake.....	..do.....	(S)	2.0	(S)	4.1		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2844- --	TOILET PREPARATIONS--Continued					
28441 --	Shaving Preparations--Continued					
28441 56	After shave preparations (all forms).....	1,000 units....	(S)	155.9	(S)	93.0
28441 59	Other shaving preparations, including preshave preparations and styptics.....	.....	(X)	9.1	(X)	8.1
28441 00	Shaving preparations, n.s.k.....	.....	(X)	5.1	(X)	1.8
28442 --	Perfumes, Toilet Water, and Colognes.....	.....	(X)	677.0	(X)	394.9
28442 11	Perfume oil mixtures and blends.....	.....	(S)	667.5	(S)	380.5
28442 23	Perfumes (liquid and solid).....	1,000 units....	(S)	667.5	(S)	380.5
28442 32	Toilet water and colognes (liquid and solid).....	...do.....	(X)	9.5	(X)	14.4
28442 00	Perfumes, toilet water, and colognes, n.s.k.....	.....	(X)	9.5	(X)	14.4
28443 --	Hair Preparations (Including Shampoos).....	.....	(X)	1,065.1	(X)	771.6
	Shampoos, including products with additives for tints, coloring, or dandruff removal:					
28443 13	Soap (all forms).....	Million lb....	(S)	321.4	(S)	195.5
28443 16	Synthetic organic detergents:					
28443 18	Liquid.....	Million gal....	(S)	321.4	(S)	195.5
28443 21	Creams and gels.....	Million lb....	(S)	321.4	(S)	195.5
28443 21	Hair tonics, including hair and scalp conditioners.....	Million gal....	(S)	84.1	(S)	41.8
28443 36	Perms:					
28443 36	Home (complete and refill).....	1,000 units....	(S)	19.1	(S)	29.2
28443 39	Commercial.....	Million gal....	(S)	28.8	(S)	27.5
28443 41	Hair dressings, including brilliantines, creams and pomades....	.....	(S)	290.8	(S)	251.4
28443 51	Hair coloring preparations (bleaches, dyes, rinses, tints, etc.)	1,000 units....	(S)	290.8	(S)	251.4
28443 63	Hair spray, aerosol.....	...do.....	(S)	227.6	(S)	178.9
28443 65	Hair rinses (excluding color rinses).....	Million gal....	(S)	49.1	(S)	25.4
28443 98	Other hair preparations, including heat setting wave solutions.	.....	(X)	26.0	(X)	10.7
28443 00	Hair preparations, n.s.k.....	.....	(X)	18.3	(X)	11.1
28444 --	Dentifrices, Including Mouthwashes, Gargles, and Rinses.....	.....	(X)	484.6	(X)	323.1
28444 11	Toothpaste, including aerosols.....	Million lb....	(S)	294.8	(S)	234.6
28444 31	Toothpowder.....	...do.....	(S)	.7	1.5	2.1
28444 51	Denture cleaner.....	.....	(X)	(⁸)	(X)	(⁸)
28444 73	Mouthwashes and rinses, excluding antiseptic mouthwashes and gargles.....	1,000 units....	(S)	118.9	(S)	31.1
28444 75	Breath fresheners--aerosol, liquid.....	.....	(S)	118.9	(S)	31.1
28444 98	Other oral hygiene products, including dental floss and dental adhesives, excluding tooth brushes and tooth picks.....	.....	(X)	⁸ 68.9	(X)	⁸ 51.4
28444 00	Dentifrices, mouthwashes, and related products, n.s.k.....	.....	(X)	1.3	(X)	4.0
28445 --	Other Cosmetics and Toilet Preparations.....	.....	(X)	1,673.6	(X)	1,045.7
	Creams, excluding shaving, hair, and deodorant:					
28445 11	Cleansing creams.....	1,000 units....	(S)	39.3	(S)	56.2
28445 12	Foundation creams.....	...do.....	(S)	31.5	(S)	34.8
28445 13	Lubricating creams, including hormone creams.....	.....	(X)	74.8	(X)	43.2
28445 14	Other creams.....	.....	(X)	84.9	(X)	38.5
28445 15	Lotions and oils (excluding hair, aftershave, and bath):					
28445 16	Suntan, including oils.....	1,000 units....	(S)	45.3	(S)	58.4
28445 17	Cleansing lotions.....	.....	(X)	41.5	(X)	20.9
28445 18	Cosmetic oils, including baby oils but excluding suntan oils.	.....	(X)	43.3	(X)	12.6
28445 19	Hand lotions.....	1,000 units....	(S)	92.4	(S)	58.2
28445 20	Other lotions and oils, excluding hair, aftershave, and bath.	.....	(X)	27.3	(X)	9.5
28445 21	Lip preparations (lipstick, rouge, etc.).....	1,000 units....	(S)	111.3	(S)	92.5
28445 22	Blushers (rouges), excluding lip rouge.....	.....	(X)	23.5	(X)	6.3
28445 23	Eye preparations (mascara, eye shadow, eye liners, eye creams, etc.).....	1,000 units....	(S)	152.0	(S)	89.5
	Deodorant (personal):					
	Underarm:					
28445 27	Aerosol.....	...do.....	(S)	373.1	(S)	184.7
28445 28	Liquid, cream, roll-on, etc.....	Million lb....	(S)	373.1	(S)	184.7
28445 29	Feminine hygiene deodorants, all types.....	.....	(S)	373.1	(S)	184.7
	Manicuring preparations:					
28445 31	Nail lacquers and enamels.....	1,000 units....	(S)	39.3	(S)	34.0
28445 33	Nail lacquer and enamel removers.....	.....	(X)	26.9	(X)	9.2
28445 39	Other manicuring preparations.....	.....	(X)	26.9	(X)	9.2

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2844- --	TOILET PREPARATIONS--Continued					
28445 --	Other Cosmetics and Toilet Preparations--Continued					
	Powder:					
28445 41	Talcum and toilet powder.....	1,000 units...	(S)	121.1	(S)	86.2
28445 43	Face powder.....	do.....	(S)	41.3	(S)	43.6
28445 45	Liquid and compact, for wet application.....		(X)	20.6	(X)	22.2
28445 48	Other powder, including foot powder (cream, sachet, and paste).....		(X)	16.0	(X)	6.6
28445 61	Bath salts, tablets, oils and bubble baths.....	1,000 units...	(S)	155.4	(S)	65.5
28445 98	Other cosmetics and toiletries, including depilatories.....		(X)	65.9	(X)	18.7
28445 00	Other cosmetics and toilet preparations, n.s.k.....		(X)	46.8	(X)	54.4
28440 00	Toilet preparations, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	65.7	(X)	64.4
28440 02	Toilet preparations, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	30.3	(X)	15.8

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

Definitions of specified products:

Alkaline detergents--Mixtures designed primarily for cleaning hard surfaces such as dishes, floors, walls, counters, vehicles, appliances, etc.

Soaps--Products, including combinations of synthetic organic surface active agents and alkaline detergents, containing more than 25 percent anhydrous soap.

Synthetic organic detergents--Mixtures containing one or more of the following compounds: Soap, alkaline detergents, synthetic organic surface active agents, sequestrants, etc., designed primarily for laundry use or for hand dishwashing.

Heavy-duty phosphate-based detergents--Detergent products for laundry applications with a substantial phosphate builder.

Heavy-duty phosphate-free detergents--Detergent products for laundry applications containing alkaline compounds, but excluding phosphate builders.

Light-duty detergents--Detergent products for hand dishwashing and for fine fabrics with little or no phosphate builder.

Presoaks--Products containing essentially one or more of the following ingredients: Alkaline compounds, synthetic organic surface active agents, soap, and soil releasing agents such as (but not confined to) protease, amylase, and lipases (enzymes).

²Product code 28412 11 combined with code 28411 21 for 1967.

³Product code 28413 51 combined with code 28413 98.

⁴Data on quantities of glycerin (synthetic and natural) produced are shown in Current Industrial Report series M20K, Fats and Oils, Production, Consumption, and Factory and Warehouse Stocks.

⁵Includes natural glycerin only. Additional data on quantities produced and quantities and value shipped for synthetic glycerin are shown in the U.S. International Trade Commission's annual report, "Synthetic Organic Chemicals, United States Production and Sales."

⁶Source: Current Industrial Reports series, M28A, Inorganic Chemicals.

⁷Code 28423 41 combined with 28423 98 for 1967.

⁸Code 28444 51 included in code 28444 98.

⁹Million lb.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SOAPS AND DETERGENTS, NONHOUSEHOLD (28411)			SOAPS AND DETERGENTS, NONHOUSEHOLD (28411)--Con.		
United States.....	652.5	(NA)	North Central Region--Continued		
Northeast Region.....	213.5	(NA)	East North Central Division--Continued		
New England Division.....	6.9	(NA)	Wisconsin.....	5.6	(NA)
Massachusetts.....	3.6	(NA)	West North Central Division.....	47.6	(NA)
Connecticut.....	1.4	(NA)	Minnesota.....	8.8	(NA)
Middle Atlantic Division.....	206.6	(NA)	Iowa.....	CC	(NA)
New York.....	29.6	(NA)	Missouri.....	26.9	(NA)
New Jersey.....	131.2	(NA)	Nebraska.....	AA	(NA)
Pennsylvania.....	45.8	(NA)	Kansas.....	4.3	(NA)
North Central Region.....	243.3	(NA)	South Region.....	120.5	(NA)
East North Central Division.....	195.8	(NA)	South Atlantic Division.....	65.2	(NA)
Ohio.....	61.7	(NA)	Maryland.....	8.6	(NA)
Indiana.....	8.2	(NA)	North Carolina.....	5.0	(NA)
Illinois.....	91.7	(NA)	South Carolina.....	2.6	(NA)
Michigan.....	28.4	(NA)	Georgia.....	47.5	(NA)
			Florida.....	AA	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SOAPS AND DETERGENTS, NONHOUSEHOLD (28411)--Con.			SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (28413)--Continued		
South Region--Continued			North Central Region--Continued		
East South Central Division.....	9.0	(NA)	West North Central Division.....	30.3	24.6
Kentucky.....	BB	(NA)	Minnesota.....	BB	(NA)
Tennessee.....	3.4	(NA)	Missouri.....	BB	BB
Alabama.....	BB	(NA)	North Dakota.....	AA	(NA)
West South Central Division.....	46.3	(NA)	Nebraska.....	AA	CC
Louisiana.....	AA	(NA)	Kansas.....	EE	EE
Texas.....	43.9	(NA)			
West Region.....	75.1	(NA)	South Region.....	42.5	FF
Mountain Division.....	2.4	(NA)	South Atlantic Division.....	FF	FF
Colorado.....	AA	(NA)	Maryland.....	FF	FF
Pacific Division.....	72.1	(NA)	East South Central Division.....	BB	(NA)
Oregon.....	AA	(NA)	Tennessee.....	BB	(NA)
California.....	71.2	(NA)	West South Central Division.....	CC	CC
			Texas.....	CC	CC
HOUSEHOLD DETERGENTS (28412)			West Region.....	39.2	FF
United States.....	1,633.9	(NA)	Pacific Division.....	FF	FF
Northeast Region.....	283.7	(NA)	California.....	FF	FF
New England Division.....	FF	(NA)			
Massachusetts.....	FF	(NA)	GLYCERIN, NATURAL (28414)		
Middle Atlantic Division.....	GG	(NA)	United States.....	50.4	48.1
New York.....	GG	(NA)	Northeast Region.....	9.8	8.0
New Jersey.....	147.3	(NA)	New England Division.....	AA	AA
Pennsylvania.....	CC	(NA)	Massachusetts.....	AA	AA
North Central Region.....	758.3	(NA)	Middle Atlantic Division.....	CC	CC
East North Central Division.....	446.6	(NA)	New York.....	BB	BB
Ohio.....	GG	(NA)	New Jersey.....	CC	4.2
Indiana.....	GG	(NA)			
Illinois.....	90.7	(NA)	North Central Region.....	27.4	24.2
Michigan.....	FF	(NA)	East North Central Division.....	FF	FF
West North Central Division.....	311.8	(NA)	Ohio.....	CC	CC
Iowa.....	EE	(NA)	Indiana.....	10.2	8.8
Missouri.....	GG	(NA)	Illinois.....	BB	BB
Nebraska.....	BB	(NA)	West North Central Division.....	BB	BB
Kansas.....	GG	(NA)	Kansas.....	AA	AA
South Region.....	375.9	(NA)	South Region.....	8.8	9.1
South Atlantic Division.....	GG	(NA)	South Atlantic Division.....	CC	CC
Maryland.....	GG	(NA)	Maryland.....	CC	BB
South Carolina.....	EE	(NA)	East South Central Division.....	AA	AA
Georgia.....	GG	(NA)	Tennessee.....	AA	AA
Florida.....	CC	(NA)	West South Central Division.....	AA	AA
East South Central Division.....	FF	(NA)	Texas.....	AA	AA
Tennessee.....	AA	(NA)	West Region.....	4.4	6.8
Mississippi.....	FF	(NA)	Pacific Division.....	4.4	6.8
West South Central Division.....	GG	(NA)	California.....	4.4	6.8
Louisiana.....	FF	(NA)			
Texas.....	FF	(NA)	HOUSEHOLD BLEACHES (28422)		
West Region.....	216.1	(NA)	United States.....	235.5	(NA)
Pacific Division.....	216.1	(NA)	Northeast Region.....	51.3	(NA)
California.....	216.1	(NA)	New England Division.....	8.2	(NA)
SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (28413)			Massachusetts.....	CC	(NA)
United States.....	412.0	332.0	Middle Atlantic Division.....	43.1	(NA)
Northeast Region.....	112.2	86.3	New Jersey.....	FF	(NA)
New England Division.....	FF	EE	Pennsylvania.....	CC	(NA)
Massachusetts.....	EE	EE			
Rhode Island.....	BB	(NA)	North Central Region.....	70.6	(NA)
Connecticut.....	1.3	(NA)	East North Central Division.....	53.2	(NA)
Middle Atlantic Division.....	GG	GG	Ohio.....	EE	(NA)
New York.....	42.5	26.4	Indiana.....	AA	(NA)
New Jersey.....	33.6	26.9	Illinois.....	31.3	(NA)
Pennsylvania.....	EE	EE	Michigan.....	6.5	(NA)
North Central Region.....	218.1	173.8	West North Central Division.....	17.4	(NA)
East North Central Division.....	187.8	149.2	Minnesota.....	BB	(NA)
Ohio.....	GG	FF	Missouri.....	EE	(NA)
Indiana.....	FF	FF	South Region.....	80.5	(NA)
Illinois.....	99.8	GG	South Atlantic Division.....	48.7	(NA)
Michigan.....	1.5	(NA)	Maryland.....	CC	(NA)
			North Carolina.....	EE	(NA)
			South Carolina.....	BB	(NA)
			Georgia.....	19.4	(NA)
			Florida.....	CC	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
HOUSEHOLD BLEACHES (28422)--Continued			POLISHING PREPARATIONS AND RELATED PRODUCTS (28424)--Continued		
South Region--Continued			North Central Region--Continued		
East South Central Division.....	EE	(NA)	West North Central Division.....	8.9	7.3
Tennessee.....	EE	(NA)	Minnesota.....	BB	(NA)
West South Central Division.....	EE	(NA)	Missouri.....	5.2	CC
Louisiana.....	AA	(NA)			
Texas.....	15.2	(NA)	South Region.....	24.1	26.2
West Region.....	33.1	(NA)	South Atlantic Division.....	14.4	EE
Mountain Division.....	2.8	(NA)	Maryland.....	4.2	3.0
Arizona.....	BB	(NA)	North Carolina.....	AA	AA
Pacific Division.....	30.3	(NA)	South Carolina.....	AA	(NA)
Washington.....	AA	(NA)	Georgia.....	7.2	10.0
California.....	FF	(NA)	East South Central Division.....	BB	CC
			Tennessee.....	BB	CC
			West South Central Division.....	CC	BB
			Texas.....	CC	BB
SPECIALTY CLEANING AND SANITATION PRODUCTS (28423)					
United States.....	898.9	528.0	West Region.....	30.7	12.3
Northeast Region.....	212.0	120.4	Mountain Division.....	EE	(NA)
New England Division.....	43.3	27.2	Colorado.....	EE	(NA)
New Hampshire.....	BB	(NA)	Pacific Division.....	EE	EE
Massachusetts.....	18.8	EE	California.....	EE	11.5
Rhode Island.....	EE	AA			
Connecticut.....	.4	14.8	SHAVING PREPARATIONS (28441)		
Middle Atlantic Division.....	168.7	93.2	United States.....	250.7	178.7
New York.....	44.5	33.0	Northeast Region.....	139.4	108.2
New Jersey.....	100.3	36.7	New England Division.....	30.4	26.5
Pennsylvania.....	23.9	23.5	Maine.....	AA	BB
			Massachusetts.....	FF	EE
North Central Region.....	512.4	310.0	Rhode Island.....	CC	BB
East North Central Division.....	457.5	277.9	Connecticut.....	BB	BB
Ohio.....	136.3	68.5	Middle Atlantic Division.....	109.1	81.7
Indiana.....	CC	CC	New York.....	FF	EE
Illinois.....	203.6	157.5	New Jersey.....	84.3	70.0
Michigan.....	40.2	25.5	Pennsylvania.....	AA	(NA)
Wisconsin.....	GG	EE			
West North Central Division.....	54.9	32.2	North Central Region.....	86.8	44.6
Minnesota.....	AA	(NA)	East North Central Division.....	85.7	40.7
Missouri.....	48.8	22.6	Ohio.....	FF	EE
Kansas.....	3.9	CC	Indiana.....	EE	EE
South Region.....	110.8	60.2	Illinois.....	FF	EE
South Atlantic Division.....	78.0	38.5	Michigan.....	AA	(NA)
Maryland.....	12.1	14.0	Wisconsin.....	CC	(NA)
North Carolina.....	BB	(NA)	West North Central Division.....	1.1	4.0
South Carolina.....	CC	BB			
Georgia.....	48.0	19.1	South Region.....	10.9	18.8
Florida.....	CC	(NA)	South Atlantic Division.....	CC	CC
East South Central Division.....	8.4	2.4	Maryland.....	CC	CC
Tennessee.....	6.1	AA	Virginia.....	AA	(NA)
Mississippi.....	1.8	19.3	East South Central Division.....	AA	CC
West South Central Division.....	24.5	BB	Tennessee.....	AA	CC
Louisiana.....	BB	BB			
Texas.....	FF	16.5	West Region.....	13.6	7.1
West Region.....	63.7	37.4	Pacific Division.....	EE	7.1
Pacific Division.....	62.9	FF	California.....	EE	CC
California.....	EE	36.3			
POLISHING PREPARATIONS AND RELATED PRODUCTS (28424)			PERFUMES, TOILET WATER, AND COLOGNES (28442)		
United States.....	391.8	324.5	United States.....	677.0	394.9
Northeast Region.....	92.9	86.8	Northeast Region.....	430.1	281.3
New England Division.....	30.5	21.9	New England Division.....	FF	24.1
Massachusetts.....	27.2	18.8	Massachusetts.....	EE	BB
Rhode Island.....	AA	(NA)	Rhode Island.....	BB	BB
Connecticut.....	AA	AA	Connecticut.....	FF	EE
Middle Atlantic Division.....	62.4	64.9	Middle Atlantic Division.....	GG	257.2
New York.....	26.7	29.9	New York.....	150.3	150.0
New Jersey.....	14.4	12.2	New Jersey.....	219.1	91.0
Pennsylvania.....	21.4	22.8	Pennsylvania.....	EE	16.2
North Central Region.....	244.2	199.1			
East North Central Division.....	235.3	191.8	North Central Region.....	147.2	GG
Ohio.....	20.6	EE	East North Central Division.....	GG	GG
Indiana.....	6.4	CC	Ohio.....	GG	FF
Illinois.....	46.7	41.1	Illinois.....	GG	FF
Michigan.....	FF	13.3	Michigan.....	BB	(NA)
Wisconsin.....	GG	GG	Wisconsin.....	CC	(NA)
			West North Central Division.....	AA	2.3
			Missouri.....	AA	1.5

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PERFUMES, TOILET WATER, AND COLOGNES (28442)—Con.			DENTIFRICES, MOUTHWASHES, GARGLES, RINSES (28444)—Continued		
South Region.....	34.3	3.1	North Central Region.....	301.7	175.9
South Atlantic Division.....	FF	AA	East North Central Division.....	GG	GG
Virginia.....	CC	(NA)	Ohio.....	GG	GG
North Carolina.....	EE	(NA)	Indiana.....	FF	FF
East South Central Division.....	CC	AA	Illinois.....	90.7	31.8
Tennessee.....	CC	AA	Michigan.....	6.1	1.7
West Region.....	65.4	FF	West North Central Division.....	GG	GG
Mountain Division.....	EE	(NA)	Iowa.....	GG	FF
Arizona.....	EE	(NA)	Missouri.....	BB	(NA)
Pacific Division.....	GG	FF	Kansas.....	EE	EE
California.....	GG	FF	South Region.....	EE	CC
Hawaii.....	AA	AA	East South Central Division.....	EE	CC
HAIR PREPARATIONS (INCLUDING SHAMPOOS) (28443)			Tennessee.....	EE	CC
United States.....	1,065.1	771.6	West Region.....	FF	EE
Northeast Region.....	496.8	375.6	Pacific Division.....	FF	EE
New England Division.....	256.6	211.9	California.....	FF	EE
New Hampshire.....	BB	(NA)	OTHER COSMETICS AND TOILET PREPARATIONS (28445)		
Massachusetts.....	GG	FF	United States.....	1,673.6	1,045.7
Connecticut.....	GG	GG	Northeast Region.....	752.6	562.9
Middle Atlantic Division.....	240.2	156.3	New England Division.....	GG	106.2
New York.....	FF	FF	Massachusetts.....	GG	GG
New Jersey.....	207.2	117.7	Connecticut.....	FF	GG
North Central Region.....	456.8	347.5	Middle Atlantic Division.....	GG	456.7
East North Central Division.....	264.3	170.0	New York.....	188.3	177.8
Ohio.....	48.4	FF	New Jersey.....	387.6	255.4
Indiana.....	CC	CC	Pennsylvania.....	EE	23.6
Illinois.....	207.7	126.9	North Central Region.....	605.4	297.0
Michigan.....	BB	(NA)	East North Central Division.....	506.1	242.8
West North Central Division.....	192.4	177.5	Ohio.....	244.6	89.6
Minnesota.....	125.8	GG	Indiana.....	CC	BB
Iowa.....	GG	GG	Illinois.....	241.8	141.9
Missouri.....	CC	BB	Michigan.....	10.8	BB
South Region.....	29.9	7.2	Wisconsin.....	BB	BB
South Atlantic Division.....	19.4	(NA)	West North Central Division.....	99.3	54.2
Virginia.....	AA	(NA)	Minnesota.....	EE	CC
North Carolina.....	BB	(NA)	Iowa.....	EE	EE
Florida.....	EE	(NA)	Missouri.....	64.5	33.1
East South Central Division.....	CC	(NA)	South Region.....	163.9	78.8
Tennessee.....	8.0	(NA)	South Atlantic Division.....	111.3	FF
West South Central Division.....	AA	BB	Maryland.....	GG	FF
Texas.....	AA	BB	Virginia.....	EE	(NA)
West Region.....	81.6	41.3	North Carolina.....	FF	BB
Mountain Division.....	EE	(NA)	Georgia.....	BB	(NA)
Arizona.....	EE	(NA)	Florida.....	AA	BB
Nevada.....	CC	(NA)	East South Central Division.....	35.6	BB
Pacific Division.....	GG	FF	Tennessee.....	FF	FF
California.....	GG	FF	West South Central Division.....	17.1	EE
DENTIFRICES, MOUTHWASHES, GARGLES, RINSES (28444)			Texas.....	EE	11.2
United States.....	484.6	323.1	West Region.....	151.7	107.0
Northeast Region.....	125.5	134.7	Mountain Division.....	FF	CC
New England Division.....	BB	BB	Arizona.....	EE	(NA)
Massachusetts.....	BB	AA	Nevada.....	CC	CC
Middle Atlantic Division.....	GG	GG	Pacific Division.....	GG	GG
New York.....	AA	EE	California.....	GG	GG
New Jersey.....	106.2	104.9			
Pennsylvania.....	EE	EE			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2841-	Soap and other detergents.....	2,851.8	2,522.4	2,509.1	2,432.1	2,286.3	2,200.8	1,780.7	1,463.8
28411	Soap and detergents, nonhousehold.....	652.5					417.9		
28412	Household detergents.....	1,633.9	2,070.7	2,069.5	1,979.5	1,832.3	1,329.7	1,428.3	1,098.2
28413	Soaps, except specialty cleaners, household.....	412.0	359.9	353.4	364.7	352.4	332.0	296.3	288.5
28414	Glycerin, natural.....	50.4	55.0	53.0	44.4	50.3	48.1	38.5	70.4
28410	Soaps and other detergents, n.s.k.....	103.0	(36.8)	(33.2)	43.5	51.3	73.2	17.6	6.8
2842-	Polishes and sanitation goods.....	1,735.8	(NA)	(NA)	(NA)	(NA)	1,116.9	747.8	536.3
28422	Household bleaches.....	235.5	(NA)	(NA)	(NA)	(NA)	169.5	110.8	85.9
28423	Specialty cleaning and sanitation products.....	898.9	801.8	754.9	619.5	529.6	528.0	331.7	181.5
28424	Polishing preparations and related products.....	391.8	356.9	347.1	365.0	347.2	324.5	278.8	240.3
28420	Polishes and sanitation goods, n.s.k.....	209.6	(50.5)	(70.1)	82.5	79.9	94.9	26.5	28.6
28430	Surface active and finishing agents.....	580.7	515.9	492.0	471.6	453.6	403.2	283.6	209.8
2844-	Toilet preparations.....	4,247.1	3,920.2	3,769.6	3,462.4	3,102.2	2,794.2	1,858.6	1,126.0
28441	Shaving preparations.....	250.7	257.5	261.9	242.4	204.0	178.7	111.1	74.9
28442	Perfumes, toilet water, and colognes.....	677.0	570.9	535.8	508.6	471.1	394.9	208.6	103.4
28443	Hair preparations (including shampoos).....	1,065.1	1,094.2	1,033.5	925.6	838.9	771.6	592.7	315.8
28444	Dentifrices, mouthwashes, gargles, and rinses.....	484.6	461.7	468.3	401.8	348.2	323.1	228.4	197.8
28445	Other cosmetics and toilet preparations.....	1,673.6	1,487.6	1,424.9	1,326.3	1,181.4	1,045.7	698.2	418.4
28440	Toilet preparations, n.s.k.....	96.0	48.3	(45.2)	(57.7)	58.6	80.2	19.6	15.6

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost	
		1972					
	INDUSTRY 2841.--SOAP AND OTHER DETERGENTS						
	Materials, containers, and supplies, total.....			(X)	(X)	1,170.9	(X)
284309	Bulk surface active agents, except sulfonated oils and fats.....	Active wt..	Mil. lb....	(S)	752.4	96.7	(S)
284308	Other emulsifiers, wetting agents, penetrants, etc.....	Active wt..	do.....	(S)	88.6	14.3	(S)
284421	Perfume oil mixtures and blends.....			(X)	(X)	55.5	(X)
284141	Glycerin.....	100%.....	Mil. lb....	(S)	51.6	9.1	(S)
207711	Grease and inedible tallow.....		do.....	(X)	867.1	65.7	(X)
286901	Optical bleach.....			(X)	(X)	27.2	(X)
281971	Potassium pyrophosphate (TKPP).....	100% K ₄ P ₂ O ₇	1,000 short tons.	(X)	27.4	5.4	(X)
281228	Sodium carbonate (soda ash).....	58% Na ₂ O...	do.....	(X)	321.1	13.3	(X)
281238	Sodium hydroxide (caustic soda).....	100% NaOH...	do.....	(X)	395.4	31.6	(X)
281972	Sodium tripolyphosphate (STPP).....	100% Na ₅ P ₃ O ₁₀	do.....	(X)	930.7	131.8	(X)
281973	Tetrasodium pyrophosphate (TSPP).....	100% Na ₄ P ₂ O ₇	do.....	(X)	18.7	3.0	(X)
281974	Trisodium phosphate (TSP).....	100% Na ₃ PO ₄	do.....	(X)	87.3	11.8	(X)
207011	Vegetable oil.....		Mil. lb....	(X)	241.6	26.5	(X)
	Containers:						
265011	Paperboard.....			(X)	(X)	123.8	(X)
340001	Metal.....			(X)	(X)	40.7	(X)
322101	Glass.....			(X)	(X)	8.0	(X)
307940	Plastic.....			(X)	(X)	85.0	(X)
970099	All other materials and components, parts, containers and supplies consumed.....			(X)	(X)	378.2	(X)
976000	Materials, containers, supplies, n.s.k. ¹			(X)	(X)	43.3	(X)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost (million dollars)	
	INDUSTRY 2841.--SOAP AND OTHER DETERGENTS--Continued Materials, containers, and supplies, total.....			(X)	(X)	1,050.4	(X)
284309	Bulk surface active agents, except sulfonated oils and fats.....	Active wt..	Mil. lb....	(S)	748.3	93.6	(S)
284308	Other emulsifiers, wetting agents, penetrants, etc.....	Active wt..	...do.....	(S)	153.6	22.2	(S)
284421	Perfume oil mixtures and blends.....			(X)	(X)	44.1	(X)
284141	Glycerin.....	100%.....	Mil. lb....	(S)	85.2	16.5	(S)
207711	Grease and inedible tallow.....		...do.....	(X)	946.3	55.3	(X)
286901	Optical bleach.....			(NA)	(NA)	(NA)	(NA)
281971	Potassium pyrophosphate (TKPP).....	100% K ₄ P ₂ O ₇	1,000 short tons.	(X)	(S)	4.0	(X)
281228	Sodium carbonate (soda ash).....	58% Na ₂ O..	...do.....	(X)	194.4	7.6	(X)
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	...do.....	(X)	273.0	18.6	(X)
281972	Sodium tripolyphosphate (STPP).....	100%.....	...do.....	(X)	860.1	112.7	(X)
281973	Tetrasodium pyrophosphate (TSPP).....	100% Na ₂ P ₃ O ₁₀..	...do.....	(X)	69.2	9.1	(X)
281974	Trisodium phosphate (TSP).....	100% Na ₃ P ₂ O ₇..	...do.....	(X)	80.2	8.9	(X)
207011	Vegetable oil.....	100% Na ₃ PO ₄	Mil. lb....	(S)	255.9	32.4	(S)
	Containers:						
265011	Paperboard.....			(X)	(X)	114.8	(X)
340001	Metal.....			(X)	(X)	27.1	(X)
322101	Glass.....			(X)	(X)	10.4	(X)
307940	Plastic.....			(X)	(X)	79.8	(X)
970099	All other materials and components, parts, containers and supplies consumed.....			(X)	(X)	356.3	(X)
976000	Materials, containers, supplies, n.s.k. ¹			(X)	(X)	37.0	(X)
	INDUSTRY 2842.--POLISHES AND SANITATION GOODS Materials, containers, and supplies, total.....			(X)	(X)	687.9	(X)
284309	Bulk surface active agents, except sulfonated oils and fats.....	Active wt..	Million lb.	150.9	107.0	16.3	14.4
284308	Other emulsifiers, wetting agents, penetrants, etc.....	Active wt..	...do.....	63.6	47.3	7.6	16.4
284421	Perfume oil mixtures and blends.....			(X)	(X)	13.8	(X)
281211	Chlorine.....	100% Cl.....	1,000s.tons	131.5	131.5	7.4	-
284141	Glycerin.....	100%.....	Million lb.	.5	1.0	.2	-
207711	Grease and inedible tallow.....		...do.....	(NA)	3.6	.7	(NA)
286901	Optical Bleach.....			(X)	(X)	1.0	(X)
281971	Potassium pyrophosphate (TKPP).....	100% K ₄ P ₂ O ₇	1,000s.tons	(NA)	(D)	(D)	(NA)
281228	Sodium carbonate (soda ash).....	58% Na ₂ O..	...do.....	64.3	64.3	3.1	-
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	...do.....	123.1	123.1	9.1	-
281972	Sodium tripolyphosphate (STPP).....	100%.....	...do.....	(NA)	8.6	1.3	(NA)
281973	Tetrasodium pyrophosphate (TSPP).....	100% Na ₂ P ₃ O ₁₀..	...do.....	(NA)	(D)	(D)	(NA)
281974	Trisodium phosphate (TSP).....	100% Na ₃ P ₂ O ₇..	...do.....	(NA)	(D)	(D)	(NA)
207011	Vegetable oil.....	100% Na ₃ PO ₄	Million lb.	95.4	(D)	1.7	(D)
	Containers:						
265011	Paperboard.....			(X)	(X)	21.4	(X)
340001	Metal.....			(X)	(X)	89.1	(X)
322101	Glass.....			(X)	(X)	13.4	(X)
307940	Plastic.....			(X)	(X)	46.2	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	(X)	334.5	(X)
976000	Materials, containers, supplies, n.s.k. ¹			(X)	(X)	120.1	(X)
	Material				Delivered cost (million dollars)		
					1972	1967	
	INDUSTRY 2844.--TOILET PREPARATIONS Materials, containers, and supplies, total.....				1,089.8	699.4	
	Containers:						
307940	Plastics.....				201.3	82.2	
322102	Glass.....				116.3	80.7	
260091	Paper and paperboard.....				137.8	81.6	
340001	Metal.....				129.1	74.7	
970099	All other materials and components, parts, containers, and supplies consumed.....				440.1	296.7	
976000	Materials, containers and supplies, n.s.k. ¹				65.2	83.5	

See footnotes on next page.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(Footnotes for table 7A)

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹This item represents the total cost of materials for establishments that did not report detailed materials data. It also includes estimates for companies that were not mailed report forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 2841.—SOAP AND OTHER DETERGENTS					
	Purchased fuels and electric energy.....		(X)	23.8	(X)	14.6
	Purchased fuels, total.....		(X)	13.1	(X)	9.1
121005	Coal.....	1,000 s. tons....	175.0	2.0	167.8	2.0
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	639.6	2.9	769.4	2.0
291141	Distillate.....	...do.....	278.1	1.2	215.7	.6
291151	Residual.....	...do.....	361.5	1.7	553.7	1.4
131300	Natural gas.....	Billion ft³.....	14.0	6.7	10.3	4.9
960011	Other fuels.....		(X)	.6	(X)	.1
975000	Fuels, n.s.k.....		(X)	1.0	(X)	-
960012	Purchased electric energy.....	Million kWh.....	662.8	10.7	468.4	5.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	43.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	8.5	-	5.9	-
	INDUSTRY 2843.—SURFACE ACTIVE AGENTS					
	Purchased fuels and electric energy.....		(X)	8.1	(X)	(NA)
	Purchased fuels, total.....		(X)	5.5	(X)	(NA)
121005	Coal.....	1,000 s. tons....	2.9	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	497.5	2.1	(NA)	(NA)
291141	Distillate.....	...do.....	293.2	1.3	(NA)	(NA)
291151	Residual.....	...do.....	204.3	.8	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	3.3	1.6	(NA)	(NA)
960011	Other fuels.....		(X)	.6	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	178.6	2.6	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	(NA)
	Total energy used for heat and power.....	Bil. kWh equiv....	3.3	-	(NA)	(NA)
	INDUSTRY 2844.—TOILET PREPARATIONS					
	Purchased fuels and electric energy.....		(X)	8.9	(X)	(NA)
	Purchased fuels, total.....		(X)	3.1	(X)	(NA)
121005	Coal.....	1,000 s. tons....	11.7	.2	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	209.3	1.0	(NA)	(NA)
291141	Distillate.....	...do.....	120.5	.6	(NA)	(NA)
291151	Residual.....	...do.....	88.8	.4	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	1.2	.7	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.0	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	411.0	5.8	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.2	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

Paints and Allied Products

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EXPLANATORY TEXT

PAINTS AND ALLIED PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in the following industry:

SIC Code and Title

2851—Paints, Varnishes, Lacquers, Enamels, and Allied Products*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2851.—PAINTS AND ALLIED PRODUCTS (Short Title)

This industry comprises establishments primarily engaged in manufacturing paints; varnishes; lacquers; enamels and shellac; putties and wood fillers and sealers; paint and varnish removers; paint brush cleaners and allied paint products.

Establishments primarily engaged in manufacturing carbon black are classified in industry 2895; bone black, lampblack, and inorganic color pigments in industry 2816; organic color pigments in industry 2865; plastics materials in industry 2821, printing ink in industry 2893; calking compounds and sealants in industry 2891; and artists' paints in industry 3952. For a

detailed list of products of industry 2851, refer to table 6A, product codes 28511 11 to 28519 77.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. However, the SIC number and title are unchanged. Calking and sealant compounds, formerly classified under product class 28518 in this industry, have been reclassified into industry 2891, Adhesives and Sealants. The effect of this revision on the data are summarized in Table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 1,630 establishments with 68-thousand total employment and \$1,859 million value added would have been classified in industry 2851 under the old SIC.

Value of shipments and other receipts of the Paints and Allied Products Industry in 1972 totaled \$3,824.3 million. This included shipments of paints and allied products (primary products) valued at \$3,392.6 million, shipments of other products (secondary products) valued at \$174.9 million, and miscellaneous receipts (mainly resales) of \$256.8 million.

Shipments of paint and allied products (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 95 percent. Secondary products shipped by this industry in 1972 consisted mainly of plastics materials and resins (\$47.9 million) and adhesives and gelatin (\$42.9 million).

Shipments of paints and allied products (primary products) from establishments classified in industry 2851 in 1972 represented 96 percent (coverage ratio) of these products valued at \$3,520.2 million shipped by all industries. In 1967, the coverage ratio was also 96 percent. Other industries shipping paint and allied products consisted mainly of industry 2891, Adhesives and Sealants (\$26.9 million) and industry 2893, Printing Ink (\$15.0 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2851, these establishments accounted for 7 percent of value of shipments.

*Note that the "short title" for this industry is used throughout the report.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
	INDUSTRY 2851.--PAINTS AND ALLIED PRODUCTS														
1972 Census, new SIC..	1,599	687	66.0	648.1	36.3	73.3	295.5	1,792.4	2,061.2	3,824.3	83.3	(NA)	543.8	.95	.96
1972 Census, old SIC..	1,630	706	68.2	674.1	37.8	76.3	307.3	1,858.9	2,102.1	3,930.2	87.0	(NA)	558.7	.95	.96
1971 ASM.....	(NA)	(NA)	68.0	606.3	37.3	72.8	270.5	1,706.9	1,921.1	3,655.9	66.2	923.5	514.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	71.3	588.0	39.7	78.9	266.5	1,554.4	1,861.0	3,382.7	116.5	929.9	522.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	66.7	542.0	37.3	74.4	247.3	1,472.7	1,722.7	3,189.8	69.5	803.7	472.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	65.1	507.2	35.9	72.2	229.8	1,410.1	1,701.2	3,092.0	68.1	774.7	449.2	(NA)	(NA)
1967 Census.....	1,701	680	66.1	492.0	36.3	73.1	223.4	1,318.5	1,606.4	2,911.4	70.7	755.6	426.7	95	96
1966 ASM.....	(NA)	(NA)	67.2	487.6	37.2	75.8	225.1	1,348.3	1,645.1	2,970.4	63.1	(NA)	414.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	65.2	453.2	36.0	73.3	208.1	1,256.7	1,536.0	2,785.6	63.1	(NA)	370.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	61.0	424.9	33.9	70.2	195.3	1,146.5	1,430.4	2,553.0	39.0	604.3	353.2	(NA)	(NA)
1963 Census.....	1,788	654	61.3	401.2	33.8	69.1	183.5	1,111.7	1,350.2	2,456.4	37.7	592.6	340.2	95	96
1962 ASM.....	(NA)	(NA)	58.2	374.8	32.3	66.4	168.4	955.9	1,231.8	2,196.0	29.4	564.7	307.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	58.4	359.8	32.8	65.5	162.4	912.5	1,178.1	2,096.1	26.8	(NA)	300.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	59.2	359.2	33.5	66.7	162.5	902.4	1,209.6	2,119.4	26.4	(NA)	289.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	60.8	349.4	34.3	68.4	162.8	915.8	1,219.0	2,124.7	25.3	(NA)	306.9	(NA)	(NA)
1958 Census.....	1,709	600	58.8	323.4	33.2	66.9	153.1	806.9	1,072.9	1,878.7	35.4	(NA)	280.4	94	95

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for this industry for the last 3 years in which censuses were conducted is as follows: 1972, 1,317; 1967, 1,459; and 1963, 1,579.

(NA) Not available.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 2851.--PAINTS AND ALLIED PRODUCTS											
1972 Census, new SIC...	9,820	(NA)	55	2,018	4.03	.53	.71	(NA)	27,158	36	24.45
1972 Census, old SIC...	9,819	(NA)	55	2,019	4.03	.54	.71	(NA)	27,157	36	24.45
1971 ASM.....	8,916	13,580	55	1,952	3.72	.53	.69	.25	25,101	36	23.45
1970 ASM.....	8,247	13,040	56	1,987	3.38	.55	.72	.27	21,801	38	19.70
1969 ASM.....	8,126	12,050	56	1,995	3.32	.54	.71	.25	22,079	37	19.79
1968 ASM.....	7,791	11,909	55	2,011	3.18	.55	.71	.25	21,661	36	19.53
1967 Census.....	7,441	11,430	55	2,014	3.06	.55	.72	.26	19,940	37	18.03
1966 ASM.....	7,255	(NA)	55	2,038	2.97	.55	.72	(NA)	20,058	36	17.79
1965 ASM.....	6,946	(NA)	55	2,038	2.84	.55	.71	(NA)	19,262	13	17.14
1964 ASM.....	6,969	9,910	56	2,069	2.78	.56	.73	.24	18,804	37	16.34
1963 Census.....	6,549	9,670	55	2,043	2.66	.55	.71	.24	18,145	36	16.08
1962 ASM.....	6,439	9,700	55	2,057	2.53	.56	.73	.26	16,421	39	14.39
1961 ASM.....	6,164	(NA)	56	2,001	2.48	.56	.73	(NA)	15,629	39	13.92
1960 ASM.....	6,070	(NA)	57	1,990	2.44	.57	.74	(NA)	15,247	40	13.52
1959 ASM.....	5,749	(NA)	56	1,996	2.38	.57	.74	(NA)	15,069	38	13.39
1958 Census.....	5,502	(NA)	56	2,016	2.29	.57	.74	(NA)	13,730	40	12.06

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 2851.--Paints and Allied Products.....	1,599	687	66.0	1,792.4	3,824.3	(X)	(X)	(X)	(X)	(X)
Old industry 2851.--Paints and Allied Products.....	1,599	687	66.0	1,792.4	3,824.3	1,630	706	68.2	1,858.9	3,930.2

(X) Not applicable.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

(see appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2851-- PAINTS AND ALLIED PRODUCTS													
UNITED STATES.	1 599	687	66.0	648.1	36.3	73.3	295.5	1 792.4	2 061.2	3 824.3	83.3	66.1	1 318.5
NORTHEAST REGION. E1	458	181	17.3	169.7	10.2	20.1	82.2	457.9	494.4	949.7	(D)	18.1	354.1
NEW ENGLAND DIVISION. E1	85	29	2.0	17.2	1.0	1.8	7.3	46.8	46.0	92.6	(D)	2.1	38.0
MASSACHUSETTS. E1	52	21	1.5	12.3	.8	1.4	5.7	36.2	32.3	68.6	(D)	1.6	29.1
RHODE ISLAND. E2	10	3	.2	1.9	.1	.1	.5	3.8	4.7	8.4	(D)	.2	2.6
CONNECTICUT. E1	15	2	.2	2.1	.1	.2	.7	4.9	6.3	11.2	(D)	.3	5.1
MIDDLE ATLANTIC DIVISION. E1	373	152	15.3	152.5	9.2	18.3	75.0	411.1	448.5	857.1	(D)	15.9	316.2
NEW YORK. E1	151	47	4.4	42.3	2.6	5.4	20.8	101.1	120.0	219.2	(D)	3.9	72.3
NEW JERSEY. E1	154	69	6.5	64.4	4.0	7.8	32.9	190.6	212.2	400.5	(D)	7.6	168.5
PENNSYLVANIA.	68	36	4.5	45.8	2.6	5.1	21.3	119.4	116.2	237.4	(D)	4.4	75.4
NORTH CENTRAL REGION.	483	222	25.1	254.5	13.7	27.5	116.5	680.1	787.2	1 453.6	(D)	27.3	546.4
EAST NORTH CENTRAL DIVISION.	379	176	20.7	213.7	11.4	23.1	97.7	554.5	652.8	1 195.4	26.0	22.7	461.3
OHIO.	101	52	6.6	63.4	3.4	7.0	28.1	175.1	194.7	363.3	6.5	7.3	140.8
INDIANA.	30	11	1.3	14.0	.7	1.3	5.4	28.8	32.8	61.9	.6	1.5	26.7
ILLINOIS.	150	73	8.0	78.7	4.7	9.5	39.2	223.4	286.2	505.1	13.3	9.2	190.1
MICHIGAN.	67	31	3.9	47.6	2.2	4.4	21.4	98.9	115.4	213.6	5.1	3.9	87.3
WISCONSIN.	31	9	1.0	10.0	.5	.9	3.6	28.2	23.5	51.4	.5	.9	16.3
WEST NORTH CENTRAL DIVISION.	104	46	4.4	40.9	2.3	4.4	18.9	125.7	134.4	258.3	(D)	4.6	85.1
MINNESOTA.	24	9	.8	7.3	.3	.6	2.8	20.9	18.8	39.3	.8	.6	9.1
IOWA.	10	6	.6	5.3	.4	.7	3.1	26.6	26.2	52.7	.6	.5	24.1
MISSOURI.	62	28	2.9	26.7	1.4	2.7	12.2	75.6	82.2	156.4	2.6	3.2	48.8
KANSAS.	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION.	370	162	14.0	130.6	7.4	15.6	53.2	389.3	459.4	840.4	18.8	12.1	243.0
SOUTH ATLANTIC DIVISION.	185	77	6.6	61.2	3.4	7.1	22.9	173.3	213.0	382.4	9.1	5.6	97.8
MARYLAND.	28	18	1.6	14.9	1.0	2.0	5.4	34.8	47.5	81.4	(D)	1.5	25.1
VIRGINIA. E1	18	12	.6	5.0	.3	.7	2.2	14.0	16.5	30.4	(D)	.4	6.8
NORTH CAROLINA.	18	11	1.2	13.6	.5	1.1	3.9	32.1	39.2	70.7	(D)	.7	14.4
GEORGIA.	37	17	1.6	15.5	.8	1.7	6.2	57.8	74.8	130.7	(D)	1.2	28.1
FLORIDA. E1	71	14	1.4	10.0	.6	1.3	4.0	29.7	30.2	59.5	(D)	1.3	16.8
EAST SOUTH CENTRAL DIVISION.	64	33	3.1	31.3	1.7	3.9	13.7	99.9	102.8	201.4	5.0	3.0	63.6
KENTUCKY.	23	18	1.9	20.5	1.0	2.4	9.1	76.5	74.2	150.2	(D)	2.1	52.7
TENNESSEE.	19	7	.7	5.8	.4	.9	2.7	12.3	14.9	26.6	.5	.8	(D)
ALABAMA. E1	14	6	.4	3.9	.2	.4	1.5	8.7	11.2	19.7	(D)	.8	(D)
WEST SOUTH CENTRAL DIVISION.	121	52	4.3	38.1	2.3	4.7	16.6	116.2	143.6	256.6	4.7	3.5	81.6
ARKANSAS.	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.9
OKLAHOMA.	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.0
TEXAS.	89	42	3.6	33.3	1.9	3.8	14.3	102.7	124.2	224.2	3.4	3.0	71.7
WEST REGION.	288	122	9.5	93.3	5.1	10.1	43.6	265.0	320.1	580.6	8.2	8.7	175.0
MOUNTAIN DIVISION.	29	12	.7	6.6	.3	.6	2.4	14.5	22.2	36.8	.7	.6	8.0
COLORADO.	12	5	.3	3.1	.1	.3	1.0	7.9	10.3	18.6	.5	.3	5.0
PACIFIC DIVISION.	259	110	8.8	86.7	4.8	9.4	41.3	250.4	297.9	543.8	7.5	8.1	167.0
WASHINGTON. E1	25	11	.6	5.5	.3	.5	2.2	12.2	15.3	28.3	1.0	.6	12.1
OREGON.	16	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.1
CALIFORNIA.	217	90	7.8	77.4	4.3	8.5	37.5	230.1	273.1	498.1	(D)	7.2	149.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown.

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

NA Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis:
1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(million)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
INDUSTRY 2851.--PAINTS AND ALLIED PRODUCTS													
United States.....	1,630	706	68.2	674.1	37.8	76.3	307.3	1,858.9	2,102.1	3,930.2	(D)	66.1	1,318.5
Northeast Region....	463	185	17.3	169.3	10.3	20.4	82.9	450.7	489.4	936.6	(D)	18.1	354.1
New England Division..	86	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	38.0
Massachusetts.....	52	21	1.5	12.3	.8	1.4	5.7	36.2	32.3	68.6	(D)	1.6	29.1
Rhode Island.....	10	3	.2	1.9	.1	.1	.5	3.8	4.7	8.4	(D)	.2	2.6
Connecticut.....	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.1
Middle Atlantic Div...	377	155	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.9	316.2
New York.....	151	47	4.4	42.3	2.6	5.4	20.8	101.1	120.0	219.2	(D)	3.9	72.3
New Jersey.....	155	70	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.6	168.5
Pennsylvania.....	71	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	75.4
North Central Region	497	232	27.0	277.2	14.7	29.6	125.5	724.1	819.8	1,529.9	(D)	27.3	546.4
East North Central Div.	387	182	22.0	230.9	12.0	24.3	103.4	589.2	677.6	1,254.5	28.1	122.7	461.3
Ohio.....	107	57	7.5	75.4	3.8	7.7	31.4	198.7	208.5	400.5	7.8	7.3	140.8
Indiana.....	30	11	1.3	14.0	.7	1.3	5.4	28.8	32.8	61.9	.6	1.5	26.7
Illinois.....	151	74	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.2	190.1
Michigan.....	68	3.	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	87.3
Wisconsin.....	31	9	1.0	10.0	.5	.9	3.6	28.2	23.5	51.4	.5	.9	16.3
West North Central Div.	110	50	5.0	46.2	2.7	5.3	22.1	134.9	142.3	275.4	(D)	4.6	85.1
Minnesota.....	25	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	9.1
Iowa.....	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	24.1
Missouri.....	58	32	3.5	31.8	1.9	3.6	15.2	84.6	90.1	173.2	3.7	3.2	48.8
Kansas.....	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Region.....	379	166	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.1	243.0
South Atlantic Division	188	78	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6	97.8
Maryland.....	27	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	25.1
Virginia.....	18	12	.6	5.0	.3	.7	2.2	14.0	16.5	30.4	(D)	.4	6.8
North Carolina.....	18	11	1.2	13.6	.5	1.1	3.9	32.1	39.2	70.7	(D)	.7	14.4
Georgia.....	40	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	28.1
Florida.....	72	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	16.8
East South Central Div.	65	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	63.6
Kentucky.....	25	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	52.7
Tennessee.....	19	7	.7	5.8	.4	.9	2.7	12.3	14.9	26.6	.5	BB	(D)
Alabama.....	14	6	.4	3.9	.2	.4	1.5	8.7	11.2	19.7	(D)	BB	(D)
West South Central Div.	125	54	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	81.6
Arkansas.....	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana.....	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.9
Oklahoma.....	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.0
Texas.....	92	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	71.7
West Region.....	291	123	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.7	175.0
Mountain Division....	28	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	8.0
Colorado.....	12	5	.3	3.1	.1	.3	1.0	7.9	10.3	18.6	.5	.3	5.0
Pacific Division.....	263	112	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.1	167.0
Washington.....	26	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	12.1
Oregon.....	16	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.1
California.....	220	92	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.2	149.9

(D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Paints and allied products (SIC 2851)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT .	95
COVERAGE RATIO ² DO . .	96
ESTABLISHMENTS, TOTAL NUMBER .	1 599
WITH 1 TO 19 EMPLOYEES DO . .	912
WITH 20 TO 99 EMPLOYEES DO . .	543
WITH 100 EMPLOYEES OR MORE DO . .	144
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000 .	66.0
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS .	648.1
PRODUCTION WORKERS:	
AVERAGE FOR YEAR 1,000 .	36.3
MARCH DO . .	35.3
MAY DO . .	36.5
AUGUST DO . .	37.5
NOVEMBER DO . .	36.0
MAN-HOURS MILLIONS .	73.3
JANUARY-MARCH DO . .	17.5
APRIL-JUNE DO . .	18.6
JULY-SEPTEMBER DO . .	19.0
OCTOBER-DECEMBER DO . .	18.3
WAGES MILLION DOLLARS .	295.5
COST OF MATERIALS, ETC., TOTAL DO . .	2 061.2
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED DO . .	1 855.2
COST OF RESALES DO . .	176.7
FUELS CONSUMED DO . .	11.0
PURCHASED ELECTRIC ENERGY DO . .	15.6
CONTRACT WORK DO . .	2.7
VALUE OF SHIPMENTS, INCLUDING RESALES DO . .	3 824.3
VALUE OF RESALES DO . .	246.2
VALUE ADDED BY MANUFACTURE DO . .	1 792.4
MANUFACTURERS' INVENTORIES:	
BEGINNING OF YEAR, TOTAL DO . .	493.0
FINISHED PRODUCTS DO . .	279.4
WORK IN PROCESS DO . .	33.8
MATERIALS, SUPPLIES, FUEL, ETC. DO . .	179.8
END OF YEAR, TOTAL DO . .	543.8
FINISHED PRODUCTS DO . .	306.6
WORK IN PROCESS DO . .	35.6
MATERIALS, SUPPLIES, FUEL, ETC. DO . .	201.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO . .	86.0
NEW PLANT AND EQUIPMENT, TOTAL DO . .	83.3
NEW STRUCTURES AND ADDITIONS TO PLANT DO . .	27.3
NEW MACHINERY AND EQUIPMENT DO . .	56.0
USED PLANT AND EQUIPMENT DO . .	2.7

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
2851-- PAINTS AND ALLIED PRODUCTS											
ESTABLISHMENTS, TOTAL,	1 599	66.0	648.1	36.7	73.3	295.5	1 792.4	1 061.2	3 824.3	27.7	763.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	387	.8	6.7	.5	.9	3.1	22.5	25.4	47.8	3.7	7.2
5 TO 9 EMPLOYEES E4	242	1.6	14.3	.9	1.8	6.5	35.4	41.0	76.7	3.1	10.2
10 TO 19 EMPLOYEES E2	283	4.0	37.2	2.3	4.6	17.0	89.2	119.8	208.4	3.9	26.6
20 TO 49 EMPLOYEES E1	347	11.1	102.6	6.2	12.0	44.0	274.9	311.4	580.6	12.3	77.0
50 TO 99 EMPLOYEES	196	13.7	131.5	7.7	15.3	57.9	342.0	412.1	748.4	11.9	104.7
100 TO 249 EMPLOYEES	91	14.4	136.4	7.6	16.1	63.5	410.7	502.1	905.4	15.7	134.5
250 TO 499 EMPLOYEES	44	14.4	155.3	7.6	15.6	70.0	435.4	483.8	909.0	15.4	131.9
500 TO 999 EMPLOYEES	8	5.9	64.2	3.3	7.1	33.7	182.4	165.5	348.2	7.9	51.6
1,000 TO 2,499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	398	1.3	10.8	.8	1.4	4.9	28.5	33.4	61.9	1.6	9.6

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

¹ Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underlined figures above.

² Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2851	PAINTS AND ALLIED PRODUCTS										
	ENTIRE INDUSTRY	1 599	66.0	648.1	36.7	73.3	295.5	1 792.4	1 061.2	3 824.3	27.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	1 519	60.9	598.8	33.7	68.2	274.7	1 658.4	1 894.2	3 525.7	75.1
28511	EXTERIOR OIL-TYPE TRADE SALES PAINT PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	132	6.4	60.8	3.5	6.9	26.9	187.4	220.6	403.8	7.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	49	2.1	20.2	1.2	2.2	8.3	57.6	66.4	124.7	2.6
28512	EXT. WATER-TYPE PAINT PRODUCTS AND TINTING BASES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	26	.9	7.7	.4	.8	2.7	20.2	23.5	43.5	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	5	.1	1.4	.1	.2	.6	3.2	3.7	6.9	(0)
28513	INTERIOR OIL-TYPE TRADE SALES PAINT PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	63	4.1	39.7	2.4	4.9	18.0	115.3	121.1	233.0	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	17	.6	4.8	.3	.7	2.2	17.2	17.4	34.0	.3
28514	INT. WATER-TYPE PAINT PRODUCTS AND TINTING BASES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	161	11.8	113.0	6.8	13.6	55.7	358.0	432.5	786.4	12.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	5	.2	1.3	.1	.2	.7	3.6	3.1	6.7	.1
28515	TRADE SALES LACQUERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	12	1.0	10.3	.6	1.1	5.8	41.0	33.9	74.0	1.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	4	.1	.9	.1	.1	.4	1.6	3.0	4.5	(2)
28516	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	298	24.4	255.7	12.5	25.7	109.7	638.8	746.2	1 374.8	36.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	129	6.2	60.3	3.1	6.4	24.5	157.5	186.9	340.0	15.4
28517	INDUSTRIAL LACQUERS, INCLUDING ACRYLICS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	67	2.8	31.6	1.7	3.3	14.6	73.6	80.3	152.6	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	25	.6	4.7	.4	.8	2.4	10.4	15.0	25.4	.7
28518	PUTTY AND ALLIED PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	50	2.4	20.3	1.5	3.0	11.3	62.4	68.9	129.7	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	34	1.6	14.2	1.1	2.2	8.2	39.2	49.1	87.3	.9
28519	MISCELLANEOUS PAINT PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT),	78	4.4	41.1	2.6	5.6	20.9	126.2	145.6	270.0	4.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION,	56	3.2	30.8	2.1	4.5	17.0	102.4	117.8	218.7	3.6

(D) Withheld to avoid disclosing figures for individual companies.

(2) Less than half of the unit of measurement shown.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
2851	Paints and allied products.....1972.. 1967..	3,824.3 2,911.4	3,392.6 2,598.5	174.9 133.0	256.8 179.8	95 95	3,520.2 2,703.8	3,392.6 2,598.5	127.6 105.4	96 96

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Paints and allied products (SIC 2851)	Other industries	Product code	Industry, class of products, and miscellaneous receipts	All industries	Paints and allied products (SIC 2851)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	3,824.3	(X)		Other product shipments by 4-digit product group--Con.			
2851-	Paints and allied products.....	3,520.2	3,392.6	127.6	2899	Chemical preparations, n.e.c..	(X)	9.5	(X)
28511	Exterior oil-type trade sales paint products.....	469.7	460.7	9.0	3079	Misc. plastics products.....	(X)	5.5	(X)
28512	Exterior water-type trade sales print products, includ- ing tinting bases.....	222.0	220.9	1.1	3299	Nonmetallic mineral products, n.e.c.....	(X)	(5-10)	(X)
28513	Interior oil-type trade sales paint products.....	323.1	322.3	.7		Other products.....	(X)	14.8	(X)
28514	Interior water-type trade sales paint products, includ- ing tinting bases.....	430.9	427.4	3.5		Miscellaneous receipts.....	(X)	256.8	(X)
28515	Trade sales lacquers.....	76.3	76.3	-		Resales.....	(X)	246.2	(X)
28516	Industrial product finishes, except lacquers.....	940.7	905.1	35.6		Other receipts.....	(X)	10.6	(X)
28517	Industrial lacquers, including acrylics.....	236.8	232.6	4.2		Listing of other industries with over \$2 million shipments of the primary products			
28518	Putty and allied products....	138.0	114.5	23.5	2851-	2816 Inorganic pigments.....	(X)	(X)	(5-10)
28519	Miscellaneous paint products..	350.6	306.2	44.4		2821 Plastics materials and resins.....	(X)	(X)	6.8
28510	Paints and allied products n.s.k.....	332.1	326.5	5.6		2841 Soap and other detergents.	(X)	(X)	7.8
						2842 Polishes and sanitation goods.....	(X)	(X)	10.0
						2865 Cyclic crudes and inter- mediates.....	(X)	(X)	5.2
						2869 Industrial organic chem- icals, n.e.c.....	(X)	(X)	(10-20)
2295	Coated fabrics, not rubberized.	(X)	(2-5)	(X)		2891 Adhesives and sealants....	(X)	(X)	26.9
2816	Inorganic pigments.....	(X)	9.9	(X)		2893 Printing ink.....	(X)	(X)	15.0
2821	Plastics materials and resins.	(X)	47.9	(X)		2899 Chemicals preparations, n.e.c.....	(X)	(X)	10.9
2841	Soap and other detergents....	(X)	11.8	(X)		2952 Asphalt felts and coatings	(X)	(X)	3.8
2842	Polishes and sanitation goods.	(X)	5.8	(X)		3079 Miscellaneous plastics products.....	(X)	(X)	7.5
2869	Industrial organic chemicals, n.e.c.....	(X)	(10-20)	(X)		3275 Gypsum products.....	(X)	(X)	(2-5)
2891	Adhesives and sealants.....	(X)	42.9	(X)		3442 Metal doors, sash, and trim.....	(X)	(X)	(2-5)
2893	Printing ink.....	(X)	6.7	(X)					

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2851- --	PAINTS AND ALLIED PRODUCTS, TOTAL.....	.....	(X)	3,520.2	(X)	¹ 2,635.5
28511 --	Exterior Oil-Type Trade Sales Paint Products.....	Million gal...	² 134.9	469.7	² 98.5	329.7
28511 11	Oil and alkyd vehicle paints in paste and semipaste form.....	...do.....	8.9	26.5	7.6	24.5
	Oil paints, enamels, and varnishes in ready-mixed form:					
28511 21	Oil and alkyd vehicle house paints and tinting bases.....	...do.....	28.9	110.6	26.8	95.6
28511 22	Sash, trims, and trellis enamels and tinting bases.....	...do.....	3.7	15.7	3.8	15.5
28511 24	Porch and deck enamels and tinting bases including interior- exterior floor enamels.....	...do.....	7.6	29.0	8.1	28.7
28511 25	Undercoaters and primers.....	...do.....	9.0	30.3	7.4	26.4
28511 27	Barn and roof paints (excluding bituminous paints and roof coatings).....	...do.....	2.9	8.4	3.0	8.5
28511 28	Marine paints and enamels (shelf goods).....	...do.....	3.3	14.5	2.3	9.3
28511 31	Metallic paints (aluminum, zinc, bronze, etc.).....	...do.....	3.8	15.5	4.2	15.0
28511 32	Traffic paints (all types, shelf goods and highway depart- ments).....	...do.....	18.0	38.7	8.7	17.1
28511 33	Automotive and machinery refinish paints and enamels, except lacquers.....	...do.....	10.4	52.0	3.6	17.1
28511 34	Automotive and machinery refinish primers and undercoaters...	...do.....	3.2	11.7	1.3	4.9
28511 35	Varnish, oleoresinous (synthetic and natural).....	...do.....	4.8	16.3	4.1	11.5
28511 37	Stains (including shingle and shake).....	...do.....	12.3	38.1	4.6	12.3
28511 39	Other exterior oil paints including bituminous paints.....	...do.....	^e 5.2	20.5	^e 3.3	10.8
28511 00	Exterior oil-type trade sales paint products, n.s.k.....	...do.....	^e 11.8	41.9	^e 9.7	32.7
28512 --	Exterior Water-Type Trade Sales Paint Products, Including Tinting Bases.....	...do.....	² 63.1	222.0	² 38.3	129.5
28512 11	All purpose water emulsion paints and tinting bases (excluding exterior-interior water emulsion paints).....	...do.....	48.0	173.0	27.1	95.0
28512 16	Masonry water emulsion paints and tinting bases.....	...do.....	9.4	29.8	5.5	17.5
28512 19	Other exterior water-thinned paints, including dry types.....	...do.....	^e 4.0	13.0	^e 4.1	11.5
28512 00	Exterior water-type trade sales paint products, n.s.k.....	...do.....	^e 1.7	6.2	^e 1.6	5.5
28513 --	Interior Oil-Type Trade Sales Paint Products.....	...do.....	² 80.5	323.1	² 74.8	268.2
	Oil paints, enamels, and varnishes in ready-mixed form:					
28513 52	Flat wall paints and tinting bases including semipaste(oil and alkyd vehicle).....	...do.....	14.8	51.6	16.9	49.2
28513 53	Glass and quick drying enamels and tinting bases.....	...do.....	13.4	62.0	12.2	52.1
28513 54	Semigloss paints and tinting bases.....	...do.....	15.9	60.6	16.1	58.1
28513 56	Undercoaters and primers.....	...do.....	5.0	17.7	4.5	14.5
28513 59	Other interior oil paints and enamels, n.e.c., including mill white paints and interior marine shelf goods.....	...do.....	6.9	24.9	4.9	17.9
	Varnishes:					
28513 65	Varnishes, except shellac varnishes.....	...do.....	6.6	28.7	6.0	22.0
28513 67	Shellac varnish.....	...do.....	1.5	5.0	1.2	3.0
28513 71	Stains.....	...do.....	3.7	13.9	2.6	9.1
28513 81	Aerosol paints made from paint produced and packaged in this establishment or packaged on contract for you.....	...do.....	^e 5.9	31.4	^e 2.9	15.5
28513 00	Interior oil-type trade sales paint products, n.s.k.....	...do.....	^e 6.7	27.3	^e 7.5	26.6
28514 --	Interior Water-Type Trade Sales Paint Products, Including Tinting Bases.....	...do.....	² 136.2	430.9	² 96.8	291.9
28514 11	Flat water emulsion paints and tinting bases.....	...do.....	100.7	311.4	79.2	246.4
28514 21	Semigloss water emulsion paints and tinting bases.....	...do.....	18.4	66.9	4.9	15.7
28514 31	All purpose water emulsion paints.....	...do.....	7.5	22.2	3.6	10.1
28514 98	Other interior water-thinned paints including paste and semi- paste.....	...do.....	^e 6.3	19.9	^e 6.2	11.0
28514 00	Interior water-type trade sales paint products, n.s.k.....	...do.....	^e 3.3	10.5	^e 2.9	8.7
28515 --	Trade Sales Lacquers.....	...do.....	² 14.6	76.3	² 9.0	43.6
28515 11	Automotive and machinery refinish lacquers.....	...do.....	7.5	51.6	4.8	28.1
28515 21	Other trade sales lacquers.....	...do.....	6.8	23.0	3.9	14.2
28515 00	Trade sales lacquers, n.s.k.....	...do.....	^e .3	1.7	^e .3	1.2
28516 --	Industrial Product Finishes, Except Lacquers.....	...do.....	² 282.7	940.7	² 244.2	718.5
	Industrial maintenance paints:					
28516 11	Interior (specially formulated coatings for special conditions in the interior of industrial plants requiring protection against extreme temperatures, fungi, chemicals, fumes, etc.)...	...do.....	14.1	57.6	13.0	42.8
28516 13	Exterior (specially formulated coatings for special conditions in the exterior of industrial plants requiring protection against extreme temperatures, fungi, chemicals, fumes, etc.)...	...do.....	^e 20.2	67.2	25.3	46.8
28516 18	Marine paints, ship bottom and other specially formulated paints (excluding shelf goods).....	...do.....	9.1	42.7	8.8	35.2

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2851- --	PAINTS AND ALLIED PRODUCTS—Continued					
28516 --	Industrial Product Finishes, Except Lacquers—Continued					
28516 11	Industrial maintenance paints—Continued					
	Transportation (original equipment):					
28516 31	Automobile finishes.....	Million gal...	40.0	127.3	40.7	119.4
28516 33	Truck and bus finishes.....	...do.....	4.9	16.3	2.6	8.2
28516 35	Railroad finishes.....	...do.....	3.7	11.2	3.3	10.5
28516 37	Other transportation equipment, including aircraft, rockets, and missiles.....	...do.....	^e 3.9	13.0	3.3	11.5
28516 38	Appliance, heating equipment, and air-conditioner finishes....	...do.....	17.7	60.0	14.6	48.4
28516 41	Wood furniture and fixture finishes.....	...do.....	18.1	43.5	12.3	27.1
28516 42	Wood and composition board flat stock finishes.....	...do.....	10.8	31.9	7.4	21.9
28516 44	Sheet, strip, and coil coatings, including sidings (excluding containers).....	...do.....	14.3	60.3	12.0	41.7
	Metal decorating:					
28516 45	Container and closure finishes.....	...do.....	34.7	102.6	24.0	69.3
28516 46	Other metal decorating.....	...do.....	9.0	30.2	5.1	17.1
28516 47	Machinery and equipment finishes (including road building equipment and farm implements) (excluding insulating varnish)	...do.....	14.4	49.3	12.6	39.8
28516 48	Metal furniture and fixture finishes.....	...do.....	11.0	38.0	8.9	27.7
28516 51	Paper and paperboard, excluding pigment binder.....	...do.....	4.4	11.6	3.3	7.8
28516 52	Insulating varnishes, electrical types.....	...do.....	9.5	29.2	7.3	24.4
28516 53	Powdered coatings.....	Million lb....	.4	6.9	(NA)	(NA)
28516 98	Other industrial product finishes (excluding semimanufactured products such as pigment dispersions and ink vehicles).....	Million gal...	^e 21.0	70.2	^e 24.1	72.9
28516 00	Industrial product finishes, except lacquers, n.s.k.....	...do.....	^e 21.5	71.7	^e 15.6	46.0
28517 --	Industrial Lacquers, Including Acrylics.....	...do.....	² 83.4	236.8	² 66.9	181.3
28517 11	Automotive.....	...do.....	16.3	57.1	12.0	40.3
28517 21	Wood.....	...do.....	35.9	78.8	28.7	61.6
28517 31	Fabricated metal.....	...do.....	8.9	33.9	9.4	31.8
28517 41	Paper and paperboard.....	...do.....	3.5	8.2	2.2	4.9
28517 98	Industrial lacquers for other end uses.....	...do.....	12.5	40.7	9.9	30.0
28517 00	Industrial lacquers, including acrylics, n.s.k.....	...do.....	^e 6.0	18.1	^e 4.7	12.7
28518 --	Putty and Allied Products.....	.....	(X)	138.0	(X)	¹ 98.4
28518 11	Wood and textile preservatives (nonpressure type).....	Million gal...	(S)	12.0	(S)	11.3
28518 21	Wood fillers and sealers.....	...do.....	9.3	22.3	(S)	7.2
28518 53	Putty and glazing compounds.....	Million lb....	(S)	21.4	(S)	7.5
28518 63	Paint and varnish removers.....	Million gal...	(S)	27.7	12.6	26.5
28518 98	Other allied paint products, including brush cleaners.....	...do.....	(S)	41.4	11.5	34.4
28518 00	Putty and allied products, n.s.k.....	.....	(X)	13.2	(X)	³ 11.5
28519 --	Miscellaneous Paint Products.....	.....	(X)	350.6	(X)	235.6
28519 11	Thinners for dopes, lacquers, and oleoresinous thinners, including mixtures and proprietary thinners.....	Million gal...	59.3	71.3	59.6	57.3
28519 41	Aerosol paints made from purchased paint.....	...do.....	(S)	64.5	3.2	21.2
28519 51	Organosols and plastisols, other than coatings.....	.....	(X)	23.3	(X)	13.4
28519 77	Miscellaneous related paint products, e.g., pigment dispersions, ink vehicles, etc.....	.....	(X)	169.0	(X)	133.7
28519 00	Miscellaneous paint products, n.s.k.....	.....	(X)	22.5	(X)	10.0
28510 00	Paints and allied products, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	268.0	(X)	304.2
28510 02	Paints and allied products, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	64.1	(X)	34.7

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review. ^e From 10 to 30 percent of this figure was estimated.

¹Due to revisions in the Standard Industrial Classification, this figure does not agree with those previously published. Calking and sealant compounds, valued at \$68.3 million in 1967, were reclassified from product class 28518 in industry 2891.

²Includes products listed below for which quantity data were estimated.

³This figure may be overstated due to the restructuring of product class 28518.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
EXTERIOR OIL-TYPE TRADE SALES PAINT PRODUCTS (28511)			EXTERIOR WATER-TYPE PAINT PRODUCTS AND TINTING BASES (28512)--Continued		
United States.....	469.7	329.7	South Region--Continued		
Northeast Region.....	102.7	80.2	West South Central Division.....	25.2	10.0
New England Division.....	15.7	10.3	Oklahoma.....	BB	(NA)
Massachusetts.....	12.0	CC	Texas.....	20.9	9.4
Connecticut.....	2.9	(NA)	West Region.....	43.8	23.1
Middle Atlantic Division.....	86.9	69.9	Mountain Division.....	4.3	(NA)
New York.....	12.9	12.5	Colorado.....	2.7	(NA)
New Jersey.....	39.1	35.1	Pacific Division.....	39.5	22.2
Pennsylvania.....	34.9	22.2	Washington.....	2.3	BB
North Central Region.....	180.7	123.4	California.....	36.3	19.6
East North Central Division.....	133.4	94.6			
Ohio.....	36.9	28.8	INTERIOR OIL-TYPE TRADE SALES PAINT PRODUCTS (28513)		
Indiana.....	8.2	10.9	United States.....	323.1	268.2
Illinois.....	70.2	41.7	Northeast Region.....	76.5	73.6
Michigan.....	13.1	8.6	New England Division.....	4.8	6.6
Wisconsin.....	5.0	4.6	Massachusetts.....	4.3	6.2
West North Central Division.....	47.3	28.8	Middle Atlantic Division.....	71.7	67.0
Minnesota.....	CC	3.9	New York.....	21.8	21.1
Iowa.....	10.4	4.1	New Jersey.....	32.8	31.3
Missouri.....	28.7	20.0	Pennsylvania.....	17.1	14.6
South Region.....	114.5	79.2	North Central Region.....	116.5	104.9
South Atlantic Division.....	60.7	37.6	East North Central Division.....	96.2	88.2
Maryland.....	22.9	13.7	Ohio.....	19.3	23.9
Virginia.....	3.7	2.0	Indiana.....	BB	7.3
North Carolina.....	AA	1.7	Illinois.....	61.3	44.2
Georgia.....	24.5	13.4	Michigan.....	6.8	9.2
Florida.....	7.8	5.6	Wisconsin.....	BB	3.5
East South Central Division.....	22.8	13.9	West North Central Division.....	20.3	16.7
Kentucky.....	16.5	8.8	Minnesota.....	CC	2.9
Tennessee.....	3.3	2.6	Iowa.....	BB	4.2
Alabama.....	BB	BB	Missouri.....	10.7	9.6
West South Central Division.....	31.1	27.7	South Region.....	70.2	46.6
Texas.....	29.2	25.3	South Atlantic Division.....	31.9	19.7
West Region.....	71.9	46.9	Maryland.....	9.9	8.0
Mountain Division.....	7.0	3.1	Virginia.....	2.1	(NA)
Colorado.....	4.1	1.5	Georgia.....	13.7	4.9
Pacific Division.....	64.8	43.9	Florida.....	5.4	3.7
Washington.....	11.0	6.8	East South Central Division.....	16.4	11.3
Oregon.....	3.8	2.0	Kentucky.....	12.8	8.6
California.....	50.1	35.1	Tennessee.....	AA	AA
EXTERIOR WATER-TYPE PAINT PRODUCTS AND TINTING BASES (28512)			Alabama.....	2.1	AA
United States.....	222.0	129.5	West South Central Division.....	21.9	15.7
Northeast Region.....	41.9	32.2	Oklahoma.....	BB	AA
New England Division.....	6.2	3.7	Texas.....	19.3	13.6
Massachusetts.....	5.7	3.6	West Region.....	59.9	43.1
Middle Atlantic Division.....	35.7	28.6	Mountain Division.....	3.2	2.0
New York.....	6.0	6.7	Colorado.....	1.7	1.5
New Jersey.....	19.6	14.1	Pacific Division.....	56.7	41.1
Pennsylvania.....	10.1	7.8	Washington.....	2.1	2.5
North Central Region.....	65.9	43.9	Oregon.....	1.5	1.5
East North Central Division.....	51.7	32.1	California.....	53.1	37.1
Ohio.....	14.3	4.6			
Indiana.....	2.1	2.9	INTERIOR WATER-TYPE PAINT PRODUCTS AND TINTING BASES (28514)		
Illinois.....	30.8	21.1	United States.....	430.9	291.9
Michigan.....	1.7	AA	Northeast Region.....	97.0	73.9
Wisconsin.....	2.8	BB	New England Division.....	6.5	6.1
West North Central Division.....	14.1	11.8	Massachusetts.....	6.0	6.0
Iowa.....	6.0	BB	Middle Atlantic Division.....	90.5	67.8
Missouri.....	7.4	5.5	New York.....	17.1	13.5
South Region.....	70.5	30.2	New Jersey.....	44.7	37.8
South Atlantic Division.....	36.8	16.7	Pennsylvania.....	28.7	16.5
Maryland.....	5.7	3.8	North Central Region.....	146.8	99.0
Virginia.....	BB	(NA)	East North Central Division.....	126.1	79.3
North Carolina.....	BB	BB	Ohio.....	31.4	19.1
Georgia.....	14.3	5.7	Indiana.....	5.6	4.6
Florida.....	11.5	4.7	Illinois.....	76.5	46.6
East South Central Division.....	8.6	3.5	Michigan.....	6.7	4.3
Kentucky.....	6.1	2.8	Wisconsin.....	5.9	4.7
Alabama.....	1.5	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
INTERIOR WATER-TYPE PAINT PRODUCTS AND TINTING BASES (28514)—Continued			INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (28516)—Continued		
North Central Region—Continued			North Central Region.....	441.5	345.1
West North Central Division.....	20.7	19.7	East North Central Division.....	381.1	301.7
Minnesota.....	AA	BB	Ohio.....	118.9	94.5
Iowa.....	CC	CC	Indiana.....	26.0	14.8
Missouri.....	11.9	9.2	Illinois.....	120.3	95.3
South Region.....	116.6	73.3	Michigan.....	97.6	83.1
South Atlantic Division.....	64.3	34.3	Wisconsin.....	18.4	14.1
Maryland.....	13.4	10.7	West North Central Division.....	60.3	43.4
District of Columbia.....	AA	(NA)	Minnesota.....	6.2	6.2
Virginia.....	4.2	AA	Iowa.....	13.7	13.0
North Carolina.....	CC	BB	Missouri.....	36.5	20.1
Georgia.....	27.4	10.2	Kansas.....	CC	4.1
Florida.....	11.2	7.6	South Region.....	172.2	96.1
East South Central Division.....	16.4	12.2	South Atlantic Division.....	66.2	33.4
Kentucky.....	12.2	9.0	Delaware.....	AA	BB
Tennessee.....	AA	1.5	Maryland.....	16.6	6.0
Alabama.....	2.6	1.7	Virginia.....	5.7	AA
West South Central Division.....	35.9	26.8	West Virginia.....	BB	BB
Arkansas.....	AA	(NA)	North Carolina.....	17.0	9.0
Oklahoma.....	AA	AA	Georgia.....	17.0	9.0
Texas.....	32.3	24.4	Florida.....	5.1	2.0
West Region.....	70.5	45.8	East South Central Division.....	43.7	28.4
Mountain Division.....	7.4	2.0	Kentucky.....	30.3	20.9
Colorado.....	5.3	1.6	Tennessee.....	CC	4.0
Arizona.....	AA	(NA)	Alabama.....	6.8	(NA)
Pacific Division.....	63.1	43.7	Mississippi.....	AA	34.3
Washington.....	4.5	2.7	West South Central Division.....	62.2	(NA)
Oregon.....	2.4	1.5	Arkansas.....	AA	(NA)
California.....	56.2	39.5	Louisiana.....	BB	(NA)
TRADE SALES LACQUERS (28515)			Oklahoma.....	AA	(NA)
United States.....	76.3	43.6	Texas.....	56.2	33.4
Northeast Region.....	25.3	21.0	West Region.....	106.3	74.6
New England Division.....	BB	(NA)	Mountain Division.....	4.3	(NA)
Vermont.....	AA	(NA)	Montana.....	BB	(NA)
Massachusetts.....	BB	(NA)	Colorado.....	AA	(NA)
Middle Atlantic Division.....	FF	21.0	Pacific Division.....	102.1	73.9
New York.....	2.7	2.7	Washington.....	1.2	2.4
New Jersey.....	EE	EE	Oregon.....	1.8	1.6
Pennsylvania.....	CC	AA	California.....	99.1	70.0
North Central Region.....	38.3	15.3	INDUSTRIAL LACQUERS, INCLUDING ACRYLICS (28517)		
East North Central Division.....	19.8	12.8	United States.....	236.8	181.3
Ohio.....	7.5	6.9	Northeast Region.....	48.1	44.1
Illinois.....	BB	BB	New England Division.....	6.9	7.7
Michigan.....	CC	BB	Massachusetts.....	5.1	CC
West North Central Division.....	18.5	2.5	Rhode Island.....	AA	(NA)
Minnesota.....	BB	(NA)	Middle Atlantic Division.....	41.2	36.4
Missouri.....	EE	AA	New York.....	6.8	6.5
South Region.....	4.1	2.2	New Jersey.....	28.0	25.8
South Atlantic Division.....	AA	1.4	Pennsylvania.....	6.4	4.1
West South Central Division.....	2.4	(NA)	North Central Region.....	118.8	95.0
Texas.....	BB	(NA)	East North Central Division.....	100.9	88.8
West Region.....	8.6	5.0	Ohio.....	16.7	16.2
Pacific Division.....	CC	5.0	Indiana.....	7.4	5.8
Washington.....	AA	(NA)	Illinois.....	24.2	18.5
California.....	7.2	4.5	Michigan.....	50.3	47.6
INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (28516)			Wisconsin.....	2.2	(NA)
United States.....	940.7	718.5	West North Central Division.....	17.9	6.2
Northeast Region.....	220.8	202.6	Minnesota.....	BB	(NA)
New England Division.....	12.8	14.3	Iowa.....	BB	AA
Massachusetts.....	7.4	8.8	Missouri.....	10.3	2.6
Rhode Island.....	AA	(NA)	Kansas.....	AA	AA
Connecticut.....	3.9	BB	South Region.....	44.3	28.7
Middle Atlantic Division.....	208.0	188.3	South Atlantic Division.....	27.3	16.9
New York.....	44.0	44.9	Virginia.....	BB	2.1
New Jersey.....	83.1	73.4	North Carolina.....	18.7	9.7
Pennsylvania.....	80.8	70.1	Georgia.....	BB	BB
			Florida.....	1.0	(NA)
			East South Central Division.....	12.1	8.4
			Kentucky.....	CC	CC
			Tennessee.....	AA	(NA)
			West South Central Division.....	5.0	3.4
			Texas.....	BB	BB

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
INDUSTRIAL LACQUERS, INCLUDING ACRYLICS (28517)-- Continued			MISCELLANEOUS PAINT PRODUCTS (28519)		
West Region.....	25.6	13.5	United States.....	350.6	235.6
Pacific Division.....	FF	EE	Northeast Region.....	96.6	87.8
Oregon.....	BB	AA	New England Division.....	11.9	8.2
California.....	22.6	11.6	Massachusetts.....	5.2	BB
			Rhode Island.....	BB	BB
			Connecticut.....	BB	AA
			Middle Atlantic Division.....	84.7	79.6
			New York.....	9.6	11.0
			New Jersey.....	46.1	58.5
			Pennsylvania.....	29.0	10.0
PUTTY AND ALLIED PRODUCTS (28518)			North Central Region.....	128.3	75.0
United States.....	138.0	(NA)	East North Central Division.....	114.3	65.1
Northeast Region.....	26.8	(NA)	Ohio.....	56.7	31.5
New England Division.....	4.2	(NA)	Illinois.....	40.9	25.6
Massachusetts.....	3.4	(NA)	Michigan.....	14.8	6.6
Middle Atlantic Division.....	22.6	(NA)	Wisconsin.....	1.2	(NA)
New York.....	13.8	(NA)	West North Central Division.....	14.0	9.9
New Jersey.....	6.6	(NA)	Iowa.....	CC	CC
Pennsylvania.....	2.1	(NA)	Missouri.....	CC	BB
North Central Region.....	43.1	(NA)	South Region.....	80.5	50.0
East North Central Division.....	41.1	(NA)	South Atlantic Division.....	16.6	CC
Ohio.....	23.6	(NA)	Maryland.....	1.1	(NA)
Illinois.....	12.5	(NA)	North Carolina.....	8.6	1.2
Michigan.....	4.2	(NA)	Georgia.....	4.6	3.1
West North Central Division.....	2.0	(NA)	Florida.....	AA	1.5
Iowa.....	AA	(NA)	East South Central Division.....	GG	FF
South Region.....	46.1	(NA)	Kentucky.....	GG	FF
South Atlantic Division.....	24.2	(NA)	Tennessee.....	1.5	(NA)
Virginia.....	BB	(NA)	West South Central Division.....	EE	CC
North Carolina.....	5.3	(NA)	Louisiana.....	AA	(NA)
Georgia.....	13.2	(NA)	Texas.....	11.4	5.7
East South Central Division.....	5.5	(NA)	West Region.....	36.3	22.8
Tennessee.....	5.2	(NA)	Mountain Division.....	AA	AA
West South Central Division.....	16.4	(NA)	Utah.....	AA	AA
Oklahoma.....	BB	(NA)	Pacific Division.....	FF	FF
Texas.....	EE	(NA)	California.....	34.1	20.9
West Region.....	22.0	(NA)			
Pacific Division.....	FF	(NA)			
California.....	20.3	(NA)			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2851	Paints and allied products.....	3,520.2	3,140.8	3,019.1	2,868.2	2,772.3	2,703.8	2,298.3	1,753.9
28511	Exterior oil-type trade sales paint products.....	469.7	436.2	416.1	355.9	343.1	329.7	394.2	(NA)
28512	Exterior water-type paint products and tinting bases.....	222.0	195.5	176.3	195.8	157.3	129.5	82.3	(NA)
28513	Interior oil-type trade sales paint products.....	323.1	285.7	316.8	286.5	288.5	268.2	290.6	(NA)
28514	Interior water-type paint products and tinting bases.....	430.9	378.9	372.0	355.6	335.5	291.9	250.7	(NA)
28515	Trade sales lacquers.....	76.3	79.6	74.7	51.2	46.8	43.6	43.8	(NA)
28516	Industrial product finishes, except lacquers.....	940.7	836.5	768.0	835.1	809.3	718.5	624.9	(NA)
28517	Industrial lacquers, including acrylics.....	236.8	253.7	225.9	202.5	210.5	181.3	184.2	(NA)
28518	Putty and allied products.....	138.0	(²)	(²)	(²)	(²)	(²)	(²)	(²)
28519	Miscellaneous paint products.....	350.6	335.9	287.7	280.0	266.1	235.6	190.2	(NA)
28510	Paints and allied products, n.s.k.....	332.1	(121.5)	(117.6)	(118.5)	138.3	338.9	109.1	(NA)

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²The individual product codes included in this class of products for 1972 differ significantly from prior years. Products shifting into or out of this class of products represent more than 15 percent of the total value at the United States level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2851.--PAINTS AND ALLIED PRODUCTS					
	Materials, containers, and supplies, total.....		(X)	1,855.2	(X)	1,461.0
	Vegetable oils:					
207611	Linseed oil (crude or processed).....	Million lb....	171.9	23.5	172.9	25.4
207016	All other vegetable oils.....	..do.....	150.4	25.1	159.9	24.1
	Pigments:					
281611	Titanium dioxide, composite and pure.....	..do.....	738.1	190.8	621.3	154.0
281622	Zinc oxide pigments (including leaded zinc oxide).....	..do.....	77.9	14.9	94.0	14.8
281601	Other inorganic pigments.....	..do.....	(X)	119.7	(X)	79.3
286531	Organic color pigments, lakes and toners.....	..do.....	(X)	52.1	(X)	27.8
286911	Driers (napthenic acid salts, rosin acid salts, etc.).....	..do.....	(X)	14.8	(X)	9.3
286922	Solvents (butyl alcohols, butyl acetate, acetone, etc.).....	..do.....	(X)	105.2	(X)	77.6
286962	Cellulose esters (nitracellulose, etc.).....	Million lb....	74.0	30.4	67.3	26.9
286937	Plasticizers.....	..do.....	59.1	13.2	60.7	13.9
282105	Synthetic resins.....	..do.....	1,424.8	310.7	889.1	204.3
286102	Tall oil and rosin (gum and wood).....	..do.....	(X)	9.0	(X)	9.8
291105	Petroleum thinners (naphtha).....	Million gal...	203.0	47.9	172.7	38.0
	Other chemicals:					
286967	Glycerol (glycerin).....	Million lb....	32.1	7.1	49.5	11.1
286968	Pentaerythritol.....	..do.....	65.2	12.1	21.6	5.1
286514	Phthalic anhydride.....	..do.....	126.2	11.2	112.1	15.7
286516	Styrene.....	..do.....	61.3	4.6	49.8	5.3
286927	Vinyl acetate monomer.....	..do.....	112.4	14.0	98.5	12.6
	Containers:					
340001	Metal.....	..do.....	(X)	184.0	(X)	118.6
260091	Paper and paperboard.....	..do.....	(X)	23.0	(X)	19.4
970099	All other materials and components, parts, containers, and supplies consumed.....	..do.....	(X)	413.1	(X)	299.8
976000	Materials, containers, and supplies, n.s.k. ¹.....	..do.....	(X)	228.8	(X)	268.2

(X) Not applicable.

¹This item represents the total cost of materials for establishments that did not report detailed materials data. It also includes estimates for companies that were not mailed report forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 2851.--PAINTS AND ALLIED PRODUCTS					
	Purchased fuels and electric energy.....		(X)	22.1	(X)	17.6
	Purchased fuels, total.....		(X)	9.3	(X)	7.8
121005	Coal.....	1,000 s. tons....	10.9	.2	1.9	.2
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	315.8	1.3	443	1.6
291141	Distillate.....	..do.....	169.9	.8	310	1.2
291151	Residual.....	..do.....	145.9	.6	133	.4
131300	Natural gas.....	Billion ft ³	6.2	3.7	4.7	2.8
960011	Other fuels.....	..do.....	(X)	1.4	(X)	.6
975000	Fuels, n.s.k.....	..do.....	(X)	2.7	(X)	2.6
960012	Purchased electric energy.....	Million kWh.....	825.2	12.8	623	9.8
	Quantity of electric energy generated less quantity sold.....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	6.0	-	5.6	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.

Industrial Organic Chemicals

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EXPLANATORY TEXT

INDUSTRIAL ORGANIC CHEMICALS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2861—Gum and Wood Chemicals

2865—Cyclic (Coal Tar) Crudes and Cyclic Intermediates, Dyes, and Organic Pigments (Lakes and Toners)*

2869—Industrial Organic Chemicals, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Industries 2865, Cyclic Crudes and Intermediates, and 2869, Industrial Organic Chemicals, N.E.C., include establishments primarily engaged in manufacturing basic industrial organic chemicals. Establishments primarily engaged in manufacturing formulated agricultural pesticides are classified in industry 2879; organic and inorganic medicinal chemicals, drugs, and medicines in industry 2833; and soap, glycerin (except synthetic), and cosmetics in SIC group 284.

In order to avoid duplicating the reports furnished to the U.S. Tariff Commission for synthetic organic chemicals, establishments reporting these products to the U.S. Tariff Commission were requested to report dollar values by product classes to the Bureau of the Census, including the value of those synthetic organic chemicals shipped as interplant transfers. As indicated in the table on the following page, the dollar values reported to the Census Bureau differ from those reported to the U.S. Tariff Commission.

*Note that the "short title" for this industry is used throughout the report.

In general, data reported to the Census Bureau are for the value of the product as shipped, whether it is a chemical compound or a finished product (preparation or mixture). Sales figures reported to the Tariff Commission represent the value of the organic chemical compound whether it is shipped as such or incorporated in another product. Also, reports to the Census Bureau are based on plant reports and the dollar shipment figures represent the valuation (f.o.b. plant) of all goods physically shipped from the producing site. Thus the Census data include products shipped on consignment and interplant transfers (separate measures are shown in table 6A) while the U.S. Tariff Commission data represent sales on a company basis by primary producers, only when accompanied by passage of title. Thus, the commercial shipment figures reported by Census most nearly correspond to the information in the Tariff report.

INDUSTRY 2861.—GUM AND WOOD CHEMICALS

This industry comprises establishments primarily engaged in manufacturing hardwood and softwood distillation products, wood and gum naval stores, charcoal, natural dyestuff, and natural tanning materials.

Establishments primarily engaged in manufacturing synthetic tanning materials are classified in industry 2869, synthetic dye in industry 2865, and synthetic organic chemicals in industry 2869. For a detailed list of products of industry 2861, refer to table 6A, product codes 28611 13 to 28612 96.

The 1972 SIC number, title, and definition of this industry are the same as those used in the 1967 SIC classification system.

Value of shipments and other receipts of the Gum and Wood Chemicals Industry in 1972 totaled \$332.3 million. This included shipments of gum and wood chemicals (primary products), valued at \$226.9 million, shipments of other products (secondary products) valued at \$97.6 million, and miscellaneous receipts (mainly resales) of \$7.8 million.

Shipments of gum and wood chemicals (primary products) in 1972 represented 70 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 73 percent. Secondary products shipped by this industry in 1972 consisted mainly of miscellaneous chemical preparations (\$45.5 million), plastics materials and resins, and agricultural chemicals.

Shipments of gum and wood chemicals (primary products) from establishments classified in industry 2861 in 1972 represented 75 percent (coverage ratio) of these products valued at

EXPLANATORY TEXT—Continued

Shipments and Interplant Transfers of Synthetic Organic Chemicals: 1972

Product code	Product of product class	Reported by Bureau of the Census		As reported by U.S. Tariff Commission Sales ¹ (million dollars)
		Shipments including interplant transfers (million dollars)	Commercial shipments only (million dollars)	
28651 --	Intermediates	1,538.0	1,151.7	1,425.6
28652 --	Synthetic organic dyes	473.6	464.5	479.7
28653 --	Synthetic organic pigments, lakes, and toners	224.7	180.3	149.3
28655 --	Tar crudes	80.9	74.8	(²)
28691 --	Miscellaneous cyclic chemical products	465.0	417.0	423.0
28692 --	Miscellaneous acyclic chemicals and chemical products	5,435.2	4,107.4	4,250.3
28693 --	Synthetic organic chemicals, n.e.c.:			
28693 11	Flavor and perfume materials	123.4	116.3	88.4
28693 31	Rubber processing chemicals	228.2	190.8	177.6
28693 51	Plasticizers	362.6	306.3	290.6
28694 --	Pesticides and other synthetic organic agricultural chemicals	489.3	434.1	1,091.7

¹ The sales data are preliminary figures published by the U.S. Tariff Commission in its preliminary annual report, "Synthetic Organic Chemicals, United States Production and Sales," for 1972.

² Although data for tar crudes are reported by Tariff, no total figure is published for 1972.

\$300.8 million shipped by all industries. In 1967, the coverage ratio was 76 percent. Other industries shipping gum and wood chemicals consisted mainly of industry 2631, Paperboard Mills, \$40.1 million; and industry 2621, Papermills, Except Building Paper, \$13.4 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2861, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 2865—CYCLIC CRUDES AND INTERMEDIATES (Short Title)

This industry comprises establishments primarily engaged in manufacturing cyclic organic intermediates, dyes, color lakes

and toners, and coal tar crudes. Important products of this industry include (1) derivatives of benzene, toluene, naphthalene, anthracene, pyridine, carbazole, and other cyclic chemical products; (2) synthetic organic dyes; (3) synthetic organic pigments; and (4) cyclic (coal tar) crudes, such as light oils and light oil products, coal tar acids, and products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Establishments primarily engaged in manufacturing coal tar crudes in chemical recovery ovens are classified in industry 3312; and petroleum refineries which produce such products, in industry 2911.

No attempt was made by the Census Bureau to secure commodity detail for intermediates, dyes, or lakes and toners since this information is compiled and published by the U.S. Tariff Commission in "Synthetic Organic Chemicals, United States Production and Sales." Likewise, no attempt was made by the Census Bureau to secure commodity detail for the tar crudes manufactured by tar distillers since this information is also compiled and published by the U.S. Tariff Commission in "Synthetic Organic Chemicals, United States Production and Sales." Direct comparisons between the product-class data

reported to the Census Bureau and the product information reported to the U.S. Tariff Commission cannot be made since the statistics published by the U.S. Tariff Commission do not show all products produced by tar distillers as distinguished from products produced by petroleum refineries or others. For the total value of the product groupings comprising industry 2865, refer to table 6A, product codes 28651 11 to 28655 11.

The 1972 definition of this industry is the same as that used in the 1967 SIC classification system. However, the SIC number has been changed from 2815 to 2865.

Value of shipments and other receipts of the Cyclic Crudes and Intermediates Industry in 1972 totaled \$2,044.5 million. This included shipments of cyclic crudes and intermediates (primary products), valued at \$1,505.7 million, shipments of other products (secondary products) valued at \$469.5 million, and miscellaneous receipts (mainly resales) of \$69.3 million.

Shipments of cyclic crudes and intermediates (primary products) in 1972 represented 76 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 73 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c. (\$121.9 million), and plastics materials and resins (\$107.6 million).

Shipments of cyclic crudes and intermediates (primary products) from establishments classified in industry 2865 in 1972 represented 65 percent (coverage ratio) of these products valued at \$2,332.4 million shipped by all industries. In 1967, the coverage ratio was 66 percent. Other industries shipping cyclic crudes and intermediates consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C. (\$625.3 million), and industry 2911, Petroleum Refining, (\$75.2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated, key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2865, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2869.—INDUSTRIAL ORGANIC CHEMICALS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing industrial organic chemicals, not elsewhere classified. Important products of this industry include (1) non-cyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts;

chloral, formaldehyde, and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethyl ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, and synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensate; (8) chemical warfare gases; and (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids.

Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; wood distillation products, naval stores, and natural dyeing and tanning materials in industry 2861; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing, and sanitation preparations in industry 2842; paints in industry 2851; urea in industry 2873; organic pigments in industry 2865; and inorganic pigments in industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

Detailed product information for industrial organic chemicals are compiled and published by the U.S. Tariff Commission in "Synthetic Organic Chemicals, United States Production and Sales." For a detailed list of products of industry 2869, refer to table 6A, product codes 28691 11 to 28695 98.

The SIC number of this industry has been changed from code number 2818 in 1967 to code number 2869 in 1972. Also, the content of the industry has been slightly changed by the 1972 Standard Industrial Classification revisions, in that urea is now a part of industry 2873. However, the reclassification of urea had little effect on the establishments comprising the Industrial Organic Chemicals, N.E.C., Industry.

Value of shipments and other receipts of the Industrial Organic Chemicals, N.E.C., Industry in 1972 totaled \$9,179.1 million. This included shipments of industrial organic chemicals, n.e.c., (primary products), valued at \$6,314.8 million, shipments of other products (secondary products) valued at \$2,527.6 million, and miscellaneous receipts (mainly resales) of \$336.7 million.

Shipments of industrial organic chemicals, n.e.c., (primary products) in 1972 represented 71 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 72 percent.

Secondary products shipped by this industry in 1972 consisted mainly of cyclic crudes and intermediates (\$625.3 million), plastics materials and resins (\$520.4 million), alkalies and chlorine (\$231.1 million), and industrial inorganic chemicals, n.e.c. (\$203.1 million).

Shipments of industrial organic chemicals, n.e.c., (primary products) from establishments classified in industry 2869 in 1972 represented 85 percent (coverage ratio) of these products valued at \$7,465.7 million shipped by all industries. In 1967, the coverage ratio was 81 percent. Other industries shipping industrial organic chemicals, n.e.c., consisted mainly of industry 2821, Plastics Materials and Resins (\$249.2 million); indus-

try 2865, Cyclic Crudes and Intermediates (\$121.9 million); and industry 2911, Petroleum Refining (\$105.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2869, these establishments accounted for less than 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2861.--GUM AND WOOD CHEMICALS															
1972 Census.....	139	41	5.9	47.6	4.7	9.4	33.5	155.4	175.9	332.3	11.1	(NA)	52.2	70	75
1971 ASM.....	(NA)	(NA)	5.2	40.8	4.1	8.2	28.5	143.0	144.7	279.4	10.5	167.9	49.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	5.3	37.9	4.2	8.4	26.8	116.3	144.0	261.7	8.9	165.3	39.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	5.8	36.0	4.7	9.3	25.6	102.3	130.0	228.5	9.3	152.8	47.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	5.7	35.0	4.4	8.7	24.2	117.2	114.8	233.3	13.7	147.8	45.8	(NA)	(NA)
1967 Census.....	184	42	5.9	33.5	4.6	9.0	23.1	100.8	115.3	215.9	20.6	139.2	46.3	73	76
1966 ASM.....	(NA)	(NA)	5.0	31.5	3.8	7.9	21.4	99.2	109.6	208.7	*6.6	(NA)	43.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.8	32.1	4.3	8.8	21.9	92.6	112.3	206.2	4.4	(NA)	46.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	6.4	32.4	5.0	10.1	22.4	102.3	116.9	222.0	4.9	118.1	48.9	(NA)	(NA)
1963 Census.....	246	53	6.8	32.7	5.4	10.8	22.9	100.3	114.6	212.8	5.6	115.2	53.7	74	77
1962 ASM.....	(NA)	(NA)	6.2	29.6	4.9	10.8	20.4	100.5	100.5	199.6	*5.2	111.2	49.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	6.7	31.3	5.3	11.4	21.8	99.1	107.5	201.0	7.0	(NA)	49.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.8	32.1	5.6	12.3	22.9	99.5	112.9	208.3	9.3	(NA)	44.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.1	31.4	5.8	12.2	22.7	93.9	111.3	202.4	*16.4	(NA)	36.7	(NA)	(NA)
1958 Census.....	190	41	7.3	30.1	5.9	11.6	21.8	85.3	99.3	182.2	4.9	(NA)	31.3	71	86
INDUSTRY 2865.--CYCLIC CRUDES AND INTERMEDIATES															
1972 Census.....	173	117	28.2	317.6	18.7	38.4	190.9	925.2	1,109.7	2,044.5	158.7	(NA)	355.6	76	65
1971 ASM.....	(NA)	(NA)	30.0	315.9	20.0	41.7	195.3	965.4	1,037.4	1,967.6	279.6	2,237.9	371.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	30.2	293.6	19.9	41.3	176.7	855.1	960.3	1,804.0	283.2	2,010.8	317.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	30.9	289.8	20.8	43.8	179.2	840.7	975.3	1,799.9	140.4	1,805.4	304.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	30.2	265.1	20.5	42.2	164.1	774.6	938.6	1,716.1	99.3	1,695.2	277.0	(NA)	(NA)
1967 Census.....	177	107	30.0	251.1	20.3	41.7	152.9	729.5	874.5	1,596.8	136.1	1,612.6	261.8	73	66
1966 ASM.....	(NA)	(NA)	29.2	240.4	20.1	42.6	150.1	741.7	826.3	1,556.3	88.4	(NA)	247.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	29.6	232.3	19.9	41.6	141.9	682.3	788.5	1,456.3	91.9	(NA)	232.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	28.2	211.3	18.7	38.5	128.5	621.1	668.3	1,289.6	103.5	1,116.4	209.0	(NA)	(NA)
1963 Census.....	141	84	27.7	201.9	18.9	38.6	124.8	605.3	634.1	1,212.8	106.8	1,047.8	211.0	(NA)	(NA)
1962 ASM.....	(NA)	(NA)	26.7	186.7	18.3	37.1	115.8	529.8	619.0	1,152.0	80.3	975.1	174.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	27.8	187.0	18.9	38.9	117.4	529.6	609.3	1,136.2	69.6	(NA)	189.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	29.1	186.6	20.1	40.4	118.3	515.3	626.2	1,127.2	98.9	(NA)	183.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	29.1	180.9	20.4	41.9	116.6	513.6	603.4	1,114.8	73.3	(NA)	170.1	(NA)	(NA)
1958 Census.....	115	87	28.3	167.4	19.6	39.0	106.3	403.1	524.8	934.4	78.0	(NA)	169.4	(NA)	(NA)
INDUSTRY 2869.--INDUSTRIAL ORGANIC CHEMICALS, N.E.C.															
1972 Census.....	514	295	101.7	1,240.2	64.1	129.1	707.6	4,965.1	4,209.5	9,179.1	645.4	(NA)	1,075.9	71	85
1971 ASM.....	(NA)	(NA)	100.2	1,140.7	63.8	129.1	649.5	4,530.8	3,656.0	8,214.3	659.4	9,409.7	1,044.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	104.2	1,099.7	66.4	135.9	629.1	4,255.4	3,607.0	7,739.7	738.1	9,007.9	1,053.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	101.6	1,023.0	65.7	137.4	597.4	3,976.6	3,374.6	7,253.2	711.7	8,263.0	936.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	98.6	925.4	63.6	131.8	545.4	3,818.6	3,154.6	6,965.8	884.8	7,716.0	817.1	(NA)	(NA)
1967 Census.....	488	268	95.1	844.9	62.4	126.4	499.8	3,575.3	2,849.0	6,377.8	781.2	6,882.3	801.1	72	81
1966 ASM.....	(NA)	(NA)	95.7	833.4	63.6	129.0	491.6	3,641.5	2,953.1	6,541.1	886.2	(NA)	770.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	91.6	768.0	61.3	125.2	462.5	3,471.7	2,615.7	6,012.5	641.2	(NA)	687.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	87.1	714.0	57.0	117.6	428.6	2,990.9	2,297.1	5,265.3	496.4	(NA)	587.0	(NA)	(NA)
1963 Census.....	464	241	85.5	677.3	56.4	114.4	405.0	2,727.5	2,105.7	4,840.2	401.0	(NA)	552.8	72	81
1962 ASM.....	(NA)	(NA)	82.4	633.9	56.2	113.7	390.8	2,511.4	1,911.3	4,430.1	267.9	(NA)	515.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	82.4	619.0	56.5	115.1	387.2	2,198.9	1,755.9	3,947.2	380.6	(NA)	493.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	78.0	560.4	54.3	107.5	344.8	2,080.7	1,673.0	3,712.9	297.7	(NA)	461.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	76.2	528.3	52.9	105.0	330.1	2,040.4	1,579.2	3,609.2	224.3	(NA)	442.4	(NA)	(NA)
1958 Census.....	334	185	77.4	508.4	52.0	103.9	312.4	1,725.8	1,370.1	3,098.0	330.3	(NA)	440.0	73	89

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2861	Industry 2865	Industry 2869
1972.....	118	124	351
1967.....	172	115	339
1963.....	229	(NA)	343

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2861.--GUM AND WOOD CHEMICALS											
1972 Census.....	8,068	(NA)	79	1,993	3.57	.53	.67	(NA)	26,149	31	16.53
1971 ASM.....	7,846	32,290	79	2,000	3.48	.52	.66	.60	26,885	29	17.05
1970 ASM.....	7,151	31,190	79	2,000	3.19	.55	.70	.63	21,943	33	13.85
1969 ASM.....	6,207	26,340	81	1,979	2.75	.57	.73	.67	17,638	35	11.00
1968 ASM.....	6,140	25,930	77	1,977	2.78	.49	.64	.63	20,561	30	13.47
1967 Census.....	5,734	23,590	79	1,951	2.57	.53	.69	.64	17,226	33	11.19
1966 ASM.....	6,266	(NA)	75	2,077	2.72	.53	.68	(NA)	19,710	32	12.61
1965 ASM.....	5,576	(NA)	75	2,034	2.49	.54	.70	(NA)	16,082	35	10.51
1964 ASM.....	5,059	18,450	79	2,004	2.22	.53	.67	.53	15,971	32	10.13
1963 Census.....	4,815	16,940	79	2,016	2.12	.54	.69	.54	14,783	33	9.29
1962 ASM.....	4,741	17,940	79	2,180	1.89	.50	.65	.56	16,126	29	9.34
1961 ASM.....	4,683	(NA)	79	2,145	1.92	.53	.69	(NA)	14,843	32	8.71
1960 ASM.....	4,690	(NA)	81	2,212	1.86	.54	.70	(NA)	14,529	32	8.10
1959 ASM.....	4,446	(NA)	82	2,104	1.87	.55	.71	(NA)	13,300	33	7.71
1958 Census.....	4,151	(NA)	82	1,955	1.88	.54	.71	(NA)	11,764	35	7.38
INDUSTRY 2865.--CYCLIC CRUDE AND INTERMEDIATES											
1972 Census.....	11,262	(NA)	66	2,050	4.97	.54	.70	(NA)	32,827	34	24.09
1971 ASM.....	10,530	74,600	68	2,085	4.68	.53	.69	1.14	32,180	33	23.15
1970 ASM.....	9,722	66,580	66	2,075	4.28	.53	.70	1.11	28,315	34	20.71
1969 ASM.....	9,379	58,430	67	2,106	4.09	.54	.70	1.00	27,207	35	19.19
1968 ASM.....	8,778	56,130	68	2,059	3.89	.55	.70	.99	25,649	34	18.36
1967 Census.....	8,372	53,750	68	2,052	3.66	.55	.70	1.01	24,321	34	17.48
1966 ASM.....	8,232	(NA)	69	2,119	3.52	.53	.68	(NA)	25,401	32	17.41
1965 ASM.....	7,848	(NA)	67	2,090	3.41	.54	.70	(NA)	23,051	34	16.40
1964 ASM.....	7,493	39,590	66	2,059	3.34	.52	.68	.87	22,025	34	16.13
1963 Census.....	7,289	37,830	68	2,042	3.23	.52	.69	.86	21,852	33	15.68
1962 ASM.....	6,992	36,520	69	2,027	3.12	.54	.70	.85	19,843	35	14.28
1961 ASM.....	6,727	(NA)	68	2,058	3.02	.54	.70	(NA)	19,050	35	13.61
1960 ASM.....	6,412	(NA)	69	2,020	2.93	.56	.72	(NA)	17,708	36	12.75
1959 ASM.....	6,216	(NA)	70	2,054	2.78	.54	.70	(NA)	17,649	35	12.26
1958 Census.....	5,915	(NA)	69	1,990	2.73	.56	.74	(NA)	14,244	42	10.34
INDUSTRY 2869.--INDUSTRIAL ORGANIC CHEMICALS, N.E.C.											
1972 Census.....	12,195	(NA)	63	2,015	5.48	.46	.59	(NA)	48,811	25	38.46
1971 ASM.....	11,384	93,910	64	2,024	5.03	.45	.58	1.15	45,218	25	35.10
1970 ASM.....	10,554	86,450	64	2,047	4.63	.47	.61	1.16	40,839	26	31.09
1969 ASM.....	10,069	81,330	65	2,091	4.35	.47	.61	1.14	39,140	26	28.94
1968 ASM.....	9,385	78,260	65	2,072	4.14	.45	.59	1.11	38,830	24	28.97
1967 Census.....	8,888	72,370	66	2,026	3.96	.45	.58	1.08	37,612	24	28.30
1966 ASM.....	8,706	(NA)	66	2,028	3.81	.45	.58	(NA)	38,040	23	28.22
1965 ASM.....	8,381	(NA)	67	2,043	3.70	.44	.56	(NA)	37,886	22	27.74
1964 ASM.....	8,198	(NA)	65	2,063	3.65	.44	.57	(NA)	34,338	24	25.44
1963 Census.....	7,922	(NA)	66	2,030	3.54	.44	.57	(NA)	31,903	25	23.83
1962 ASM.....	7,690	(NA)	68	2,024	3.44	.43	.57	(NA)	30,470	25	22.09
1961 ASM.....	7,511	(NA)	69	2,038	3.36	.44	.60	(NA)	26,680	28	19.10
1960 ASM.....	7,182	(NA)	70	1,980	3.21	.45	.60	(NA)	26,662	27	19.35
1959 ASM.....	6,937	(NA)	69	1,985	3.14	.44	.58	(NA)	26,783	26	19.43
1958 Census.....	6,565	(NA)	67	2,000	3.01	.44	.61	(NA)	22,285	29	16.61

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2861-- GUM AND WOOD CHEMICALS													
UNITED STATES.	139	41	5.9	47.6	4.7	9.4	33.5	155.4	175.9	332.3	11.1	5.9	100.8
NORTHEAST REGION. E2	22	4	.2	1.7	.2	.3	1.1	4.9	7.8	12.4	(D)	.4	4.4
MIDDLE ATLANTIC DIVISION. . . E2	18	4	.2	1.5	.2	.3	1.0	4.5	6.4	10.8	(D)	.3	3.7
NORTH CENTRAL REGION.	41	9	.9	5.3	.8	1.6	4.3	13.7	17.5	29.7	(D)	.9	8.9
WEST NORTH CENTRAL DIVISION. . .	33	7	.8	4.7	.8	1.4	3.9	12.5	16.0	27.3	(D)	.4	5.6
MISSOURI.	29	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION.	70	25	4.6	38.9	3.5	7.0	26.7	130.7	145.7	279.0	9.3	4.5	86.1
SOUTH ATLANTIC DIVISION.	32	12	2.7	24.2	2.0	4.0	16.1	80.0	88.1	171.0	6.2	2.3	49.7
WEST VIRGINIA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA.	11	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA.	12	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	18.7
EAST SOUTH CENTRAL DIVISION. . .	16	9	1.6	12.4	1.3	2.6	8.9	42.1	45.7	86.9	2.2	EE	(D)
KENTUCKY.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . .	22	4	.3	2.3	.2	.4	1.7	8.6	11.9	21.2	.9	CC	(D)
LOUISIANA.	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	6	3	.2	1.6	.2	.5	1.3	6.2	5.0	11.1	.4	(NA)	(NA)
PACIFIC DIVISION.	6	3	.2	1.6	.2	.5	1.3	6.2	5.0	11.1	.4	(NA)	(NA)
OREGON.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2865-- CYCLIC CRUDES AND INTERMEDIATES													
UNITED STATES.	173	117	28.2	317.6	18.7	38.4	190.9	925.2	1 109.7	2 044.5	158.7	30.0	729.5
NORTHEAST REGION.	77	54	13.9	152.7	9.2	18.7	94.1	363.1	394.0	759.1	(D)	16.6	349.3
NEW ENGLAND DIVISION.	11	7	1.2	10.8	.7	1.3	5.9	29.7	28.4	60.5	(D)	.9	19.8
MASSACHUSETTS.	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	13.0
RHODE ISLAND.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CONNECTICUT.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION.	66	47	12.7	141.9	8.4	17.4	88.2	333.4	365.6	698.6	(D)	15.7	329.5
NEW YORK.	12	6	2.6	29.4	1.9	3.8	20.3	48.1	54.5	101.0	(D)	3.1	44.5
NEW JERSEY.	39	31	8.3	94.6	5.5	11.4	58.3	234.0	248.8	485.1	(D)	10.0	232.0
PENNSYLVANIA.	15	10	1.8	17.9	1.0	2.2	9.6	50.3	62.3	112.4	(D)	2.5	53.0
NORTH CENTRAL REGION.	33	22	5.7	65.4	3.8	7.7	39.1	166.1	223.8	390.9	(D)	6.0	147.5
EAST NORTH CENTRAL DIVISION. . .	29	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO.	14	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	32.3
ILLINOIS.	10	7	2.6	35.4	1.8	3.4	19.8	78.5	104.7	187.6	(D)	3.5	97.7
MICHIGAN.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION. . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	52	38	8.4	97.1	5.6	11.7	56.5	390.0	481.7	878.4	107.5	7.1	224.0
SOUTH ATLANTIC DIVISION.	24	18	4.8	53.1	3.2	6.8	32.5	169.9	188.4	368.5	74.3	3.6	86.8
DELAWARE.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MARYLAND.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST VIRGINIA.	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	43.0
NORTH CAROLINA.	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH CAROLINA.	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION. . .	10	7	1.4	15.1	1.0	2.0	9.5	94.9	88.8	185.6	7.4	1.2	51.7
TENNESSEE.	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ALABAMA.	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . .	18	13	2.2	29.0	1.4	3.0	14.6	125.2	204.6	324.4	25.9	2.3	85.5
LOUISIANA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS.	16	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	11	3	.2	2.4	.1	.3	1.3	6.1	10.2	16.1	.9	.3	8.7
PACIFIC DIVISION.	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA.	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2869-- INDUSTRIAL ORGANIC CHEMICALS, NEC													
UNITED STATES.	514	295	101.7	1 240.2	64.1	129.1	707.6	4 965.1	4 209.5	9 179.1	645.4	95.1	3 575.3
NORTHEAST REGION.	174	98	27.1	316.5	16.2	32.5	171.7	725.4	938.4	1 670.0	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	33	15	5.8	61.4	3.3	7.3	36.1	83.3	120.3	212.3	(D)	(NA)	(NA)
MAINE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. E1	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
RHODE ISLAND.	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	17	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	141	83	21.4	255.0	12.9	25.2	135.6	642.1	818.1	1 457.7	(D)	(NA)	(NA)
NEW YORK.	38	21	6.1	64.1	3.9	7.0	33.1	158.6	165.6	320.7	(D)	(NA)	(NA)
NEW JERSEY.	76	49	13.1	169.6	7.8	15.6	90.9	446.9	570.8	1 015.6	(D)	(NA)	(NA)
PENNSYLVANIA.	27	13	2.2	21.3	1.3	2.5	11.5	36.7	81.7	121.4	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2869-- INDUSTRIAL ORGANIC CHEMICALS, N.E.C.--CONTINUED													
NORTH CENTRAL REGION	103	51	15.1	182.3	9.0	17.5	96.7	569.5	443.6	1 016.2	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION, . .	82	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	31	19	3.1	35.6	1.6	3.3	16.8	99.6	113.9	215.0	7.6	(NA)	(NA)
INDIANA	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	20	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	17	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION, . .	21	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	3	1	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	186	124	56.6	707.7	37.2	75.8	422.0	3 526.4	2 702.0	6 224.8	474.7	(NA)	(NA)
SOUTH ATLANTIC DIVISION,	69	41	13.7	149.4	9.9	20.8	103.6	720.8	443.9	1 164.8	44.4	(NA)	(NA)
VIRGINIA	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA	14	12	9.4	106.3	7.0	14.6	77.1	549.6	268.9	822.7	30.2	(NA)	(NA)
NORTH CAROLINA	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	11	7	.6	6.2	.4	.8	3.0	26.8	30.7	57.3	2.5	(NA)	(NA)
GEORGIA	E1 7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION, . .	30	18	8.2	94.8	5.5	11.3	57.6	311.4	358.4	666.5	33.4	(NA)	(NA)
KENTUCKY	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	12	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	5	3	.4	4.9	.3	.6	3.2	29.3	30.8	57.9	.8	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION, . .	87	65	34.7	463.5	21.8	43.7	260.8	2 494.2	1 899.6	4 393.6	396.9	(NA)	(NA)
LOUISIANA	26	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	57	39	23.9	318.3	14.8	28.8	174.4	1 843.4	1 320.7	3 161.4	251.9	(NA)	(NA)
WEST REGION,	51	22	2.9	33.8	1.7	3.3	17.2	143.7	125.5	268.1	19.8	(NA)	(NA)
MOUNTAIN DIVISION,	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	46	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	38	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

(See appendix. Explanation of Terms)

[illegible]

(Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)											
Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
2861-- GUM AND WOOD CHEMICALS											
ESTABLISHMENTS, TOTAL.	139	5.9	47.6	4.7	9.4	33.5	155.4	175.9	332.3	11.1	52.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E6	67	.1	.9	.1	.2	.6	3.1	3.9	7.0	.3	.9
5 TO 9 EMPLOYEES E2	23	.2	1.1	.1	.2	.7	3.2	7.5	10.8	.1	1.2
10 TO 19 EMPLOYEES E1	8	.1	.8	.1	.2	.6	1.8	3.0	5.3	.3	.4
20 TO 49 EMPLOYEES	15	.5	3.6	.4	.9	2.6	13.1	12.8	24.6	.8	5.8
50 TO 99 EMPLOYEES	11	.8	6.2	.7	1.4	4.8	18.7	22.9	41.8	1.7	6.7
100 TO 249 EMPLOYEES	12	4.3	35.1	3.4	6.4	24.3	115.4	125.8	242.7	8.0	37.2
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	57	.1	.8	.1	.2	.6	2.7	3.2	5.9	.2	.9
2865-- CYCLIC CRUDE AND INTERMEDIATES											
ESTABLISHMENTS, TOTAL.	173	28.2	317.6	18.7	38.4	190.9	925.2	1 109.7	2 044.5	158.7	355.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	23	(Z)	.4	(Z)	.1	.3	1.2	1.5	2.7	.3	.5
5 TO 9 EMPLOYEES E4	16	.1	1.1	.1	.2	.7	3.2	4.4	7.6	.6	1.2
10 TO 19 EMPLOYEES	17	.2	2.4	.2	.3	1.3	11.1	18.6	29.4	1.1	4.8
20 TO 49 EMPLOYEES	27	.9	8.8	.6	1.2	5.2	29.3	47.2	75.8	3.9	12.1
50 TO 99 EMPLOYEES	29	1.9	20.3	1.3	2.8	12.4	60.6	104.1	165.7	5.3	25.2
100 TO 249 EMPLOYEES	29	5.0	53.7	3.0	6.4	29.3	213.1	253.2	474.4	53.7	72.8
250 TO 499 EMPLOYEES	17	6.1	64.5	4.1	8.5	40.9	239.4	291.2	529.5	53.4	78.7
500 TO 999 EMPLOYEES	9	5.9	72.0	3.8	7.8	39.7	169.5	204.0	375.3	21.1	81.7
1,000 TO 2,499 EMPLOYEES	6	7.9	94.3	5.6	11.1	61.1	198.0	185.4	384.1	19.3	78.6
ESTABS. COVERED BY ADMIN. RECORD ¹ .	26	.1	1.1	.1	.2	.6	3.1	3.5	6.7	.9	1.1
2869-- INDUSTRIAL ORGANIC CHEMICALS, NEC											
ESTABLISHMENTS, TOTAL.	514	101.7	1240.2	64.1	129.1	707.6	4 965.1	4 209.5	9 179.1	645.4	1 075.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	119	.2	2.5	.2	.3	1.3	7.9	5.9	13.7	31.7	2.1
5 TO 9 EMPLOYEES E2	50	.3	3.6	.2	.4	1.9	11.4	17.8	28.9	(D)	4.8
10 TO 19 EMPLOYEES E1	50	.7	7.2	.5	.9	3.9	22.7	31.2	54.6	3.7	5.2
20 TO 49 EMPLOYEES	82	2.7	28.6	1.6	3.3	14.7	125.9	125.3	246.3	23.0	29.6
50 TO 99 EMPLOYEES	56	4.0	45.3	2.3	4.9	23.5	195.5	260.0	457.7	12.9	49.4
100 TO 249 EMPLOYEES	77	12.0	135.7	7.4	15.5	78.9	703.9	744.3	1 429.4	64.9	176.2
250 TO 499 EMPLOYEES	31	11.1	127.8	7.2	15.3	77.4	550.0	586.4	1 139.7	64.9	120.4
500 TO 999 EMPLOYEES	24	16.6	204.5	11.1	22.0	124.0	869.1	672.4	1 542.5	104.7	162.0
1,000 TO 2,499 EMPLOYEES	19	30.4	383.5	19.0	37.7	217.7	1 515.3	1 054.4	2 580.3	195.0	277.6
2,500 EMPLOYEES OR MORE.	6	23.5	301.6	14.5	28.6	164.6	963.4	711.8	1 686.1	144.7	248.5
ESTABS. COVERED BY ADMIN. RECORD ¹ .	99	.3	2.7	.2	.3	1.5	9.2	8.0	17.1	1.6	2.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
2861	GUM AND WOOD CHEMICALS										
	ENTIRE INDUSTRY	139	5.9	47.6	4.7	9.4	33.5	155.4	175.9	332.3	11.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	126	3.2	20.5	2.7	5.3	15.4	58.7	64.3	121.2	5.7
28611	SOFTWOOD DISTILLATION PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28612	OTHER GUM AND WOOD CHEMICALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	55	3.1	21.2	2.6	5.1	15.7	62.8	94.6	157.1	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	44	2.1	11.5	1.9	3.6	9.5	33.0	40.2	71.7	2.3
2865	CYCLIC CRUDES AND INTERMEDIATES										
	ENTIRE INDUSTRY	173	28.2	317.6	18.7	38.4	190.9	925.2	1 109.7	2 044.5	158.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	141	16.8	181.1	11.1	22.7	108.6	512.6	622.7	1 141.3	80.4
28651	CYCLIC INTERMEDIATES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	49	11.3	139.1	7.4	15.6	81.5	504.4	659.3	1 176.4	116.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	26	3.6	45.0	2.2	4.8	24.3	195.7	253.1	463.3	45.5
28652	SYNTHETIC ORGANIC DYES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	40	11.6	122.1	7.9	15.9	77.4	281.9	282.3	558.5	27.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	28	6.1	67.0	4.3	8.7	42.7	150.0	157.5	300.2	15.4
28653	SYNTHETIC ORGANIC PIGMENTS, LAKES, AND TONERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	26	4.0	43.9	2.4	4.8	23.1	100.6	104.8	208.3	11.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	19	2.5	25.5	1.6	3.1	14.1	59.7	60.1	119.6	9.5
28655	CYCLIC (COAL TAR) CRUDES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	21	.8	7.2	.6	1.3	5.0	26.7	42.8	69.3	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	17	.7	6.2	.5	1.1	4.3	22.6	37.6	60.1	1.8
2869	INDUSTRIAL ORGANIC CHEMICALS, NEC										
	ENTIRE INDUSTRY	514	101.7	1 240.2	64.1	129.1	707.6	4 965.1	4 209.5	9 179.1	645.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	407	42.3	503.9	27.6	56.1	299.7	2 299.5	2 059.3	4 371.2	224.3
28691	MISCELLANEOUS CYCLIC CHEMICAL PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	42	5.7	61.1	3.7	7.5	35.9	190.4	187.8	378.4	26.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	21	1.8	19.8	1.0	2.1	9.7	46.2	52.9	101.0	8.3
28692	MISCELLANEOUS ACYCLIC CHEMS., EXC. UREA (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	168	78.6	981.3	50.2	101.6	570.6	4 080.7	3 298.7	7 399.4	508.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	93	17.1	215.5	11.4	23.0	129.2	1 048.0	1 020.7	2 071.2	120.7
28693	SYNTHETIC ORGANIC CHEMS., NEC, NOT BULK (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	60	9.7	112.6	5.6	11.4	59.2	288.6	431.3	713.9	46.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	39	2.0	21.6	1.1	2.3	10.8	83.2	117.1	201.0	15.2
28694	PESTICIDES AND OTHER ORGANIC CHEMS., NOT FORMULAS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	19	3.2	41.4	1.9	4.1	21.0	299.0	172.5	462.1	24.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	11	.8	9.3	.5	1.1	5.6	162.8	64.3	223.9	4.0
28695	ETHYL ALCOHOL, OTHER INDUST. ORGANIC CHEMS., NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	52	3.1	30.5	1.7	3.3	13.7	66.9	85.8	152.3	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	33	2.0	18.1	1.1	2.1	8.7	45.2	49.5	93.9	5.0

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
2861	Gum and wood chemicals.....1972..	332.3	226.9	97.6	7.8	70	300.8	226.9	73.9	75
	.....1967..	215.9	155.9	56.3	3.8	73	205.1	155.9	49.2	76
2865	Cyclic crudes and intermediates.....1972..	2,044.5	1,505.7	469.5	69.3	76	2,332.4	1,505.7	826.7	65
	.....1967..	1,596.8	1,092.1	412.7	91.9	73	1,654.2	1,092.1	562.0	66
2869	Industrial organic chemicals, n.e.c.....1972..	9,179.1	6,314.8	2,527.6	336.7	71	7,465.7	6,314.8	1,150.9	85
	.....1967..	6,377.8	4,461.2	1,705.2	211.4	72	5,539.4	4,461.2	1,078.3	81

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Gum and wood chemicals (SIC 2861)	Cyclic crudes and intermediates (SIC 2865)	Industrial organic chemicals, n.e.c. (SIC 2869)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	332.3	2,044.5	9,179.1	(X)
2861-	Gum and wood chemicals.....	300.8	226.9	(under 2)	(under 2)	71.8
28611	Softwood distillation products	94.1	(over 2)	-	(under 2)	(under 2)
28612	Other gum and wood chemicals..	197.0	123.9	(under 2)	(under 2)	(over 2)
28610	Gum and wood chemicals, n.s.k.	9.7	(over 2)	-	-	(under 2)
2865	Cyclic crudes and intermediates.	2,332.4	-	1,505.7	625.3	201.4
28651	Cyclic (coal tar) intermediates.....	1,538.0	-	857.4	518.9	161.7
28652	Synthetic organic dyes.....	473.6	-	356.2	100.0	17.4
28653	Synthetic organic pigments, lakes, and toners.....	224.7	-	201.6	(2-5)	(10-20)
28655	Cyclic (coal tar) crudes.....	80.9	-	76.6	(over 2)	(under 2)
28650	Cyclic crudes and intermediates, n.s.k.....	15.2	-	13.9	-	1.3
2869-	Industrial organic chemicals, n.e.c.....	7,465.7	4.9	121.9	6,314.8	1,024.1
28691	Miscellaneous cyclic (coal tar) chemical products.....	465.0	(over 2)	14.0	393.1	(50-100)
28692	Miscellaneous acyclic chemicals, and chemical products excluding urea.....	5,435.2	-	50.4	4,715.0	669.8
28693	Synthetic organic chemicals, n.e.c., except bulk surface active agents.....	723.0	(under 2)	44.0	542.2	(100-200)
28694	Pesticides and other synthetic organic agricultural chemicals, except preparations....	489.3	-	(10-20)	444.3	(20-50)
28695	Ethyl alcohol and other industrial organic chemicals, n.e.c.....	280.3	(under 2)	(under 2)	147.3	131.2
28690	Industrial organic chemicals, n.s.k.....	72.9	-	-	72.9	-

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Gum and wood chemicals (SIC 2861)	Cyclic crudes and intermediates (SIC 2865)	Industrial organic chemicals, n.e.c. (SIC 2869)	Other industries
	Other product shipments by 4-digit product group:					
2022	Cheese, natural and processed.	(X)	-	-	(over 2)	-
2087	Flavoring extracts and sirups, n.e.c.....	(X)	-	-	(2-5)	-
2611	Pulpmills.....	(X)	-	-	(over 2)	-
2812	Alkalies and chloring.....	(X)	-	(over 2)	231.1	-
2813	Industrial gases.....	(X)	-	-	32.3	-
2816	Inorganic pigments.....	(X)	-	20.3	(20-50)	-
2819	Industrial inorganic chemicals, n.e.c.....	(X)	(under 2)	46.7	203.1	-
2821	Plastics materials and resins.	(X)	(10-20)	107.6	520.4	-
2822	Synthetic rubber.....	(X)	-	35.5	174.6	-
2824	Organic fibers, noncellulosic.	(X)	-	-	(over 2)	-
2833	Medicinals and botanicals....	(X)	-	32.6	85.9	-
2841	Soap and other detergents....	(X)	-	-	(5-10)	-
2842	Polishes and sanitation goods.	(X)	-	(under 2)	(over 2)	-
2843	Surface active agents.....	(X)	(under 2)	21.4	83.3	-
2844	Toilet preparations.....	(X)	-	-	22.1	-
2851	Paints and allied products....	(X)	-	5.2	(2-5)	-
2873	Nitrogenous fertilizers.....	(X)	-	(over 2)	94.2	-
2874	Phosphatic fertilizers.....	(X)	-	(under 2)	(2-5)	-
2879	Agricultural chemicals, n.e.c.	(X)	(over 2)	(over 2)	107.3	-
2891	Adhesives and sealants.....	(X)	(under 2)	(under 2)	(under 2)	-
2892	Explosives.....	(X)	-	-	(5-10)	-
2893	Printing ink.....	(X)	-	(5-10)	-	-
2899	Chemical preparations, n.e.c..	(X)	45.5	(over 2)	81.5	-
2911	Petroleum refining.....	(X)	-	(10-20)	132.6	-
2952	Asphalt felts and coatings....	(X)	-	(over 2)	-	-
3031	Reclaimed rubber.....	(X)	-	-	(over 2)	-
3069	Fabricated rubber products, n.e.c.....	(X)	-	-	(over 2)	-
3079	Misc. plastics products.....	(X)	-	(under 2)	20.8	-
3312	Blast furnaces and steel mills	(X)	-	(over 2)	-	-
3624	Carbon and graphite products..	(X)	-	-	(over 2)	-
	Other products.....	(X)	(under 2)	5.5	5.7	-
	Miscellaneous receipts.....	(X)	7.8	69.3	336.7	-
	Resales.....	(X)	4.0	66.6	304.1	-
	Contract work.....	(X)	3.4	1.3	24.3	-
	Other receipts.....	(X)		1.4	8.3	-

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
2861-	2611 Pulpmills.....	3.4	2869-	2823 Cellulosic manmade fibers.....	(over 2)
	2621 Papermills, except building paper.....	13.4		2824 Organic fibers noncellulosic.....	(20-50)
	2631 Paperboard mills.....	40.1		2831 Biological products.....	(over 2)
	2891 Adhesives and sealants.....	(over 2)		2833 Medicinals and botanicals.....	18.7
	2899 Chemical preparations, n.e.c.....	(2-5)		2834 Pharmaceutical preparations.....	47.1
2865-	2043 Cereal breakfast foods.....	(over 2)		2841 Soap and other detergents.....	(over 2)
	2812 Alkalies and chlorine.....	(5-10)		2842 Polishes and sanitation goods.....	2.2
	2816 Inorganic pigments.....	(10-20)		2843 Surface active agents.....	31.0
	2819 Industrial inorganic chemicals, n.e.c.....	5.7		2844 Toilet preparations.....	8.8
	2821 Plastics materials and resins.....	40.8		2851 Paints and allied products.....	(over 2)
	2822 Synthetic rubber.....	(over 2)		2873 Nitrogenous fertilizers.....	19.7
	2833 Medicinals and botanicals.....	(2-5)		2874 Phosphatic fertilizers.....	(over 2)
	2834 Pharmaceutical preparations.....	(2-5)		2875 Fertilizers, mixing only.....	(2-5)
	2873 Nitrogenous fertilizers.....	(over 2)		2879 Agricultural chemicals, n.e.c.....	40.7
	2879 Agricultural chemicals, n.e.c.....	(over 2)		2891 Adhesives and sealants.....	11.9
	2893 Printing ink.....	(over 2)		2892 Explosives.....	(over 2)
	2911 Petroleum refining.....	75.2		2899 Chemical preparations, n.e.c.....	44.9
2869-	2048 Prepared feeds, n.e.c.....	(over 2)		2911 Petroleum refining.....	105.3
	2085 Distilled liquor, except brandy.....	(over 2)		2992 Petroleum and coal products, n.e.c.....	(over 2)
	2611 Pulpmills.....	(2-5)		3011 Tires and inner tubes.....	(over 2)
	2812 Alkalies and chlorine.....	91.0		3079 Miscellaneous plastics products.....	(5-10)
	2816 Inorganic pigments.....	13.9		3675 Electronic capacitors.....	(over 2)
	2819 Industrial inorganic chemicals, n.e.c.....	82.2		3861 Photographic equipment and supplies.....	(over 2)
	2821 Plastics materials and resins.....	249.2		3999 Manufacturing industries, n.e.c.....	(over 2)
	2822 Synthetic rubber.....	(50-100)			

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2861- --	GUM AND WOOD CHEMICALS, TOTAL.....	.....	(X)	(X)	300.8	(X)	(X)	205.1
28611 --	Softwood Distillation Products.....	.....	(X)	(X)	94.1	(X)	(X)	81.4
28611 13	Wood turpentine ^{1 2}	Million lb.	22.7	9.1	1.0	82.8	66.2	6.3
28611 23	Pine oil.....	do.	57.6	64.9	11.7	72.0	72.6	10.2
28611 31	Wood rosin ²	do.	682.3	411.5	43.6	547.5	475.6	44.0
28611 98	Other derivatives of softwood distillation, including pine tar, pine tar oil, charcoal, and charcoal briquettes.....	}	(X)	(X)	37.8	(X)	(X)	20.8
28611 00	Softwood distillation products, n.s.k.....							
28612 --	Other Gum and Wood Chemicals.....	.....	(X)	(X)	197.0	(X)	(X)	111.6
28612 11	Gum naval stores.....	.....	(X)	(X)	6.7	(X)	(X)	9.9
	Gum turpentine.....	1,000 bbl. of 50 gal.	(S)	(S)	4.1	(S)	(S)	1.5
28612 21	Rosin.....	1,000 drums. of 517 lb.	30.3	29.8	2.6	181.8	169.1	8.6
28612 55	Hardwood distillation products.....	.....	(X)	(X)	80.5	(X)	(X)	32.9
	Charcoal, excluding briquets.....	1,000 s. tons.	(S)	(S)	(D)	}	384.7	376.2
28612 52	Charcoal briquets, including blends with lignite or other materials.....	do.	531.4	526.7	61.7				(X)	(X)	30.1
28612 61	Other derivatives of hardwood distillation including natural acetic acid and methanol ³.....	.....	(X)	(X)	(D)	(X)	(X)	(D)
28612 83	Natural tanning and dyeing materials and chrome tanning mixtures	.....	(X)	(X)	5.4	(X)	(X)	(D)
28612 91	Tall oils.....	.....	(X)	(X)	96.4	(X)	(X)	63.6
	Crude.....	Million lb.	1,131.0	911.5	44.2	1,106.5	831.0	25.7
28612 94	Refined (containing less than 90 percent free fatty acids, including tall oil resins other than tall oil rosins) ⁴	do.	413.5	394.4	19.5	300.8	252.5	18.3
28612 96	Rosin.....	do.	257.0	245.0	32.7	267.3	257.8	19.6
28612 00	Other gum and wood chemicals, n.s.k.....	.....	(X)	(X)	7.8	(X)	(X)	(Z)
28610 00	Gum and wood chemicals, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	(X)	3.8	(X)	(X)	6.4
28610 02	Gum and wood chemicals, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	(X)	5.9	(X)	(X)	5.8
1972 product code	Product	1972			1967			
		Total product shipments including interplant transfers	Commercial shipments only	Interplant transfers only	Total product shipments including interplant transfers	Commercial shipments only	Interplant transfers only	
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	
2865- --	CYCLIC CRUDES AND INTERMEDIATES, TOTAL ⁵	2,332.4	(X)	(X)	1,654.2	(X)	(X)	
28651 11	Cyclic (coal tar) intermediates ⁵	1,538.0	1,151.7	386.3	1,066.1	795.6	270.5	
28652 11	Synthetic organic dyes ⁵	473.6	464.5	9.1	325.6	322.7	2.9	
28653 11	Synthetic organic pigments, lakes, and toners ⁵	224.7	180.3	44.4	162.2	130.5	31.7	
28655 11	Cyclic (coal tar) crudes ^{5 6}	80.9	74.8	6.1	87.6	77.9	9.7	
28650 00	Cyclic crudes and intermediates, n.s.k., for companies with 10 employees or more. (See note.).....	8.5	(X)	(X)	11.9	(X)	(X)	
28650 02	Cyclic crudes and intermediates, n.s.k., for companies with less than 10 employees. (See note.).....	6.7	(X)	(X)	.8	(X)	(X)	
2869- --	INDUSTRIAL ORGANIC CHEMICALS, N.E.C., TOTAL ⁷	7,465.7	(X)	(X)	5,539.4	(X)	(X)	
28691 11	Miscellaneous cyclic (coal tar) chemical products ⁵	465.0	417.0	48.0	315.1	271.0	44.1	
28692 13	Miscellaneous acyclic chemicals and chemical products, excluding urea ^{5 7}	5,435.2	4,107.4	1,327.8	4,052.2	3,164.7	887.5	
28693 --	Synthetic Organic Chemicals, N.E.C., Except Bulk Surface Active Agents.....	723.0	(X)	(X)	585.6	(X)	(X)	
28693 11	Flavor and perfume materials ⁵	123.4	116.3	7.1	119.0	(D)	(D)	
28693 31	Rubber-processing chemicals ⁵	228.2	190.8	37.4	152.3	137.1	15.2	
28693 51	Plasticizers ⁵	362.6	306.5	56.1	309.2	283.1	26.1	
28693 00	Synthetic organic chemicals, n.e.c., n.s.k.....	8.8	(X)	(X)	5.1	(X)	(X)	
28694 11	Pesticides and other synthetic organic agricultural chemicals, except preparations ⁵	489.3	434.1	55.2	308.2	282.7	25.5	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972			1967		
		Total product shipments including interplant transfers	Commercial shipments only	Interplant transfers only	Total product shipments including interplant transfers	Commercial shipments only	Interplant transfers only
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
2869- --	INDUSTRIAL ORGANIC CHEMICALS, N.E.C.--Continued						
28695 --	Ethyl Alcohol and Other Industrial Organic Chemicals, N.E.C.....	280.3	(X)	(X)	239.4	(X)	(X)
	Ethyl alcohol ¹ :						
28695 11	Pure (natural).....	35.0	(D)	(D)	33.6	(D)	(D)
28695 21	Denatured (special or complete), including natural and syn- thetic for uses other than rubbing.....	42.6	(D)	(D)	44.2	(D)	(D)
28695 31	Flavor oil mixtures and blends.....	34.7	34.7	-	27.9	27.9	-
28695 37	Reagent and high purity grades of organic chemicals refined from purchased technical grades.....	23.0	22.0	1.0	19.7	19.7	-
28695 51	Natural organic chemicals, n.e.c.....	60.4	(D)	(D)	44.0	(D)	(D)
28695 98	Other industrial organic chemicals.....	78.8	(D)	(D)	67.8	64.4	3.4
28695 00	Other industrial organic chemicals, n.s.k.....	5.6	(X)	(X)	2.2	(X)	(X)
28690 00	Industrial organic chemicals, n.e.c., n.s.k., for companies with 10 employees or more. (See note.).....	58.2	(X)	(X)	33.5	(X)	(X)
28690 02	Industrial organic chemicals, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....	14.7	(X)	(X)	5.2	(X)	(X)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review. (Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

¹Excludes data for sulfate wood turpentine.

²Excludes pinene reported as such.

³Excludes data for synthetic acetic acid and synthetic methanol for which data are compiled by the U.S. Tariff Commission.

⁴Data for refined tall oil fatty acids containing 90 percent free fatty acids, or more excluding resin acids, are reported in industry 2899, Chemical Preparations, N.E.C.

⁵Data for quantities produced and values shipped for many of the synthetic organic chemicals included in this grouping are shown in the U.S. Tariff Commission's Annual Report, "Synthetic Organic Chemicals, United States Production and Sales."

⁶Represents values reported by tar distillers and excludes shipment values for tar, tar crudes, and for pitches reported by establishments classified in industry 3312, Blast Furnaces and Steel Mills, and industry 2911, Petroleum Refining.

⁷1967 and 1972 figures are not comparable. The 1967 totals for code 28692 13 include the values for urea. Due to revisions in the Standard Industrial Classification product classes, urea became code 28732 15 in 1972.

⁸For quantity information, refer to the U.S. Treasury Department, Internal Revenue Service publication: Alcohol and Tobacco--1972. Excludes shipments reported as rubbing alcohol (primary to industry 2834, Pharmaceutical Preparations), and as antifreeze (primary to industry 2899, Chemical Preparations, N.E.C.).

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SOFTWOOD DISTILLATION PRODUCTS (SIC 28611)			CYCLIC INTERMEDIATES (SIC 28651)--Continued		
United States.....	94.1	81.4	North Central Region.....	194.8	199.3
North Central Region.....	2.5	(NA)	East North Central Division.....	GG	GG
West North Central Division.....	BB	(NA)	Ohio.....	31.1	19.8
Missouri.....	BB	(NA)	Illinois.....	96.2	95.1
			Michigan.....	FF	GG
South Region.....	88.9	GG	West North Central Division.....	FF	EE
South Atlantic Division.....	59.9	47.0	Iowa.....	BB	(NA)
Georgia.....	FF	FF	Missouri.....	EE	EE
Florida.....	FF	FF	Nebraska.....	CC	(NA)
East South Central Division.....	FF	FF	Kansas.....	BB	BB
Mississippi.....	FF	FF			
West South Central Division.....	AA	CC	South Region.....	954.2	503.8
Texas.....	AA	(NA)	South Atlantic Division.....	240.0	136.1
			Delaware.....	CC	AA
West Region.....	BB	(NA)	Maryland.....	FF	FF
Pacific Division.....	BB	(NA)	Virginia.....	BB	AA
Oregon.....	BB	(NA)	West Virginia.....	124.5	93.4
			North Carolina.....	GG	(NA)
			South Carolina.....	AA	EE
			East South Central Division.....	223.1	128.7
OTHER GUM AND WOOD CHEMICALS (SIC 28612)			Kentucky.....	EE	CC
United States.....	197.0	111.6	Tennessee.....	82.9	GG
Northeast Region.....	7.3	5.6	Alabama.....	GG	FF
New England Division.....	1.5	1.6	Mississippi.....	BB	(NA)
Massachusetts.....	1.5	1.6	West South Central Division.....	491.0	239.0
Middle Atlantic Division.....	5.8	4.1	Louisiana.....	65.6	FF
New York.....	2.8	AA	Texas.....	425.4	GG
New Jersey.....	AA	(NA)			
Pennsylvania.....	AA	1.9	West Region.....	28.1	35.5
			Mountain Division.....	BB	BB
North Central Region.....	27.4	EE	Nevada.....	BB	BB
East North Central Division.....	BB	5.8	Pacific Division.....	FF	FF
Ohio.....	AA	(NA)	Washington.....	BB	BB
Wisconsin.....	BB	(NA)	California.....	18.8	27.5
West North Central Division.....	FF	10.6	SYNTHETIC ORGANIC DYES (SIC 28652)		
Missouri.....	EE	10.6	United States.....	473.6	325.6
North Dakota.....	BB	(NA)			
			Northeast Region.....	360.9	252.1
South Region.....	152.5	86.3	New England Division.....	24.3	18.0
South Atlantic Division.....	95.9	54.7	Massachusetts.....	EE	CC
Virginia.....	4.0	BB	Rhode Island.....	CC	CC
West Virginia.....	CC	BB	Middle Atlantic Division.....	336.6	234.2
North Carolina.....	5.3	2.5	New York.....	77.5	FF
South Carolina.....	EE	CC	New Jersey.....	221.7	162.7
Georgia.....	39.3	23.3	Pennsylvania.....	37.4	FF
Florida.....	FF	14.9			
East South Central Division.....	FF	17.3	North Central Region.....	FF	EE
Kentucky.....	CC	BB	East North Central Division.....	FF	EE
Tennessee.....	CC	BB	Ohio.....	30.6	EE
Alabama.....	10.2	8.6	Illinois.....	AA	(NA)
Mississippi.....	EE	BB	Michigan.....	AA	(NA)
West South Central Division.....	FF	14.3			
Arkansas.....	AA	(NA)	South Region.....	78.9	GG
Louisiana.....	16.6	10.9	South Atlantic Division.....	48.0	FF
Texas.....	4.9	BB	Maryland.....	BB	AA
			Virginia.....	AA	AA
West Region.....	9.9	BB	West Virginia.....	BB	CC
Pacific Division.....	CC	2.5	North Carolina.....	2.8	EE
Oregon.....	CC	(NA)	South Carolina.....	FF	BB
California.....	BB	AA	East South Central Division.....	FF	FF
			Tennessee.....	EE	CC
			Alabama.....	EE	EE
			West South Central Division.....	AA	(NA)
			Texas.....	AA	(NA)
CYCLIC INTERMEDIATES (SIC 28651)					
United States.....	1,538.0	1,066.1	SYNTHETIC ORGANIC PIGMENTS, LAKES, AND TONERS (SIC 28653)		
Northeast Region.....	360.9	327.4	United States.....	224.7	162.2
New England Division.....	13.2	8.4			
Massachusetts.....	AA	2.6	Northeast Region.....	118.6	101.1
Rhode Island.....	BB	(NA)	New England Division.....	EE	BB
Connecticut.....	CC	BB	Massachusetts.....	BB	AA
Middle Atlantic Division.....	347.7	319.0	Rhode Island.....	CC	AA
New York.....	37.6	41.0			
New Jersey.....	220.5	204.1			
Pennsylvania.....	89.5	74.0			

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SYNTHETIC ORGANIC PIGMENTS, LAKES, AND TONERS (SIC 28653)—Continued			MISCELLANEOUS CYCLIC CHEMICAL PRODUCTS (SIC 28691)—Continued		
Northeast Region--Continued			South Region.....	240.4	135.0
Middle Atlantic Division.....	GG	GG	South Atlantic Division.....	70.5	31.5
New York.....	FF	FF	West Virginia.....	FF	17.6
New Jersey.....	GG	68.4	North Carolina.....	2.1	(NA)
Pennsylvania.....	BB	BB	South Carolina.....	FF	8.6
North Central Region.....	GG	FF	Florida.....	BB	(NA)
East North Central Division.....	GG	FF	East South Central Division.....	92.7	65.6
Ohio.....	42.0	EE	Kentucky.....	EE	EE
Illinois.....	EE	EE	Tennessee.....	GG	GG
Michigan.....	EE	CC	Mississippi.....	BB	(NA)
South Region.....	34.6	FF	West South Central Division.....	77.3	38.0
South Atlantic Division.....	FF	FF	Louisiana.....	FF	EE
Delaware.....	EE	EE	Texas.....	GG	FF
West Virginia.....	CC	CC	West Region.....	17.5	15.1
South Carolina.....	CC	AA	Pacific Division.....	17.5	EE
East South Central Division.....	AA	AA	California.....	17.5	EE
Kentucky.....	AA	AA			
CYCLIC (COAL TAR) CRUDES (SIC 28655)			MISCELLANEOUS ACYCLIC CHEMICALS AND CHEMICAL PRODUCTS, EXCLUDING UREA (SIC 28692)¹		
United States.....	80.9	87.6	United States.....	5,435.2	4,052.2
Northeast Region.....	12.5	18.7	Northeast Region.....	683.2	544.9
Middle Atlantic Division.....	EE	EE	New England Division.....	47.6	33.1
New Jersey.....	EE	EE	New Hampshire.....	CC	CC
Pennsylvania.....	AA	CC	Massachusetts.....	CC	CC
North Central Region.....	39.6	35.6	Connecticut.....	FF	EE
East North Central Division.....	FF	FF	Middle Atlantic Division.....	635.6	54.8
Ohio.....	19.5	13.4	New York.....	156.9	127.2
Indiana.....	BB	BB	New Jersey.....	402.9	321.8
Illinois.....	EE	14.5	Pennsylvania.....	75.8	62.8
Michigan.....	CC	BB	North Central Region.....	487.9	411.5
South Region.....	24.4	FF	East North Central Division.....	436.3	377.4
South Atlantic Division.....	CC	EE	Ohio.....	127.7	119.0
West Virginia.....	CC	EE	Indiana.....	85.0	GG
East South Central Division.....	CC	9.3	Illinois.....	49.3	69.1
Tennessee.....	AA	AA	Michigan.....	168.2	129.8
Alabama.....	CC	CC	Wisconsin.....	6.1	AA
West South Central Division.....	8.2	CC	West North Central Division.....	51.7	34.1
Texas.....	8.2	CC	Iowa.....	AA	(NA)
West Region.....	4.5	CC	Missouri.....	EE	17.3
Pacific Division.....	BB	CC	Kansas.....	32.9	EE
Oregon.....	AA	(NA)	South Region.....	4,116.0	2,943.0
California.....	BB	BB	South Atlantic Division.....	680.1	733.5
MISCELLANEOUS CYCLIC CHEMICAL PRODUCTS (SIC 28691)			Delaware.....	30.1	30.9
United States.....	465.0	315.1	Maryland.....	BB	FF
Northeast Region.....	139.8	110.7	Virginia.....	GG	94.7
New England Division.....	FF	CC	West Virginia.....	GG	GG
Massachusetts.....	AA	(NA)	North Carolina.....	14.8	13.5
Rhode Island.....	EE	CC	South Carolina.....	28.2	FF
Middle Atlantic Division.....	GG	GG	Georgia.....	BB	AA
New York.....	EE	14.1	Florida.....	43.1	40.8
New Jersey.....	70.9	GG	East South Central Division.....	402.7	318.6
Pennsylvania.....	30.7	25.1	Kentucky.....	181.6	147.3
North Central Region.....	67.3	54.4	Tennessee.....	191.8	145.7
East North Central Division.....	50.0	31.0	Alabama.....	FF	FF
Ohio.....	20.4	CC	Mississippi.....	AA	BB
Indiana.....	3.1	AA	West South Central Division.....	3,033.2	1,890.9
Illinois.....	10.0	14.7	Arkansas.....	FF	BB
Michigan.....	6.5	3.1	Louisiana.....	GG	477.9
Wisconsin.....	10.0	6.0	Texas.....	2,186.9	1,402.3
West North Central Division.....	17.3	23.4	West Region.....	148.1	152.8
Missouri.....	EE	CC	Mountain Division.....	EE	CC
Nebraska.....	BB	CC	Colorado.....	BB	(NA)
			Nevada.....	CC	BB
			Pacific Division.....	GG	GG
			Washington.....	BB	(NA)
			Oregon.....	CC	BB
			California.....	123.6	144.1

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SYNTHETIC ORGANIC CHEMICALS, N.E.C. (EXCEPT BULK SURFACE ACTIVE AGENTS) (SIC 28693)			PESTICIDES AND OTHER ORGANIC CHEMICALS (NOT FORMULATIONS) (SIC 28694)—Continued		
United States.....	723.0	585.6	South Region.....	219.5	155.3
Northeast Region.....	304.4	246.4	South Atlantic Division.....	67.8	59.2
New England Division.....	55.9	57.9	Maryland.....	BB	BB
Massachusetts.....	EE	22.1	West Virginia.....	51.3	FF
Rhode Island.....	BB	BB	North Carolina.....	EE	CC
Connecticut.....	39.1	FF	East South Central Division.....	83.0	45.6
Middle Atlantic Division.....	248.6	188.5	Tennessee.....	FF	FF
New York.....	40.5	30.0	Alabama.....	52.3	18.7
New Jersey.....	173.4	116.6	Mississippi.....	BB	BB
Pennsylvania.....	34.6	41.9	West South Central Division.....	68.7	50.5
North Central Region.....	133.8	135.2	Louisiana.....	BB	CC
East North Central Division.....	106.3	GG	Texas.....	GG	FF
Ohio.....	51.2	56.2	West Region.....	13.0	11.7
Indiana.....	CC	CC	Mountain Division.....	BB	AA
Illinois.....	38.2	24.6	Nevada.....	BB	(NA)
Michigan.....	4.6	7.2	Pacific Division.....	EE	CC
Wisconsin.....	BB	AA	Oregon.....	CC	BB
West North Central Division.....	27.5	FF	California.....	BB	5.9
Minnesota.....	BB	(NA)			
Missouri.....	FF	FF	ETHYL ALCOHOL AND OTHER INDUSTRIAL ORGANIC CHEMICALS, N.E.C. (SIC 28695)		
South Region.....	252.4	169.8	United States.....	280.3	239.4
South Atlantic Division.....	137.0	109.9	Northeast Region.....	95.5	90.2
Maryland.....	CC	AA	New England Division.....	EE	10.1
West Virginia.....	109.5	99.0	Maine.....	CC	CC
North Carolina.....	5.7	BB	Middle Atlantic Division.....	GG	80.1
South Carolina.....	BB	(NA)	New York.....	EE	21.1
Georgia.....	AA	(NA)	New Jersey.....	45.7	40.3
Florida.....	CC	BB	Pennsylvania.....	FF	18.6
East South Central Division.....	GG	33.0	North Central Region.....	84.7	73.3
Tennessee.....	54.4	FF	East North Central Division.....	GG	GG
West South Central Division.....	GG	26.9	Ohio.....	30.4	17.1
Louisiana.....	33.7	CC	Indiana.....	BB	BB
Texas.....	27.2	EE	Illinois.....	41.8	31.9
West Region.....	FF	34.2	Wisconsin.....	6.6	7.3
Pacific Division.....	FF	FF	West North Central Division.....	BB	CC
Washington.....	CC	BB	Missouri.....	BB	CC
California.....	FF	28.5	South Region.....	58.1	50.5
PESTICIDES AND OTHER ORGANIC CHEMICALS (NOT FORMULATIONS) (SIC 28694)			South Atlantic Division.....	29.9	EE
United States.....	489.3	308.2	Maryland.....	AA	BB
Northeast Region.....	60.9	60.3	North Carolina.....	BB	BB
New England Division.....	CC	CC	South Carolina.....	11.5	BB
Connecticut.....	CC	CC	Georgia.....	6.2	(NA)
Middle Atlantic Division.....	GG	GG	Florida.....	CC	BB
New York.....	EE	EE	East South Central Division.....	BB	AA
New Jersey.....	38.8	43.7	Tennessee.....	BB	AA
North Central Region.....	195.9	81.0	West South Central Division.....	FF	36.5
East North Central Division.....	GG	FF	Arkansas.....	BB	(NA)
Ohio.....	5.3	BB	Louisiana.....	4.9	6.7
Indiana.....	BB	BB	Texas.....	EE	29.9
Illinois.....	16.6	FF	West Region.....	41.9	25.5
Michigan.....	FF	CC	Pacific Division.....	FF	25.5
Wisconsin.....	CC	CC	Washington.....	CC	(NA)
West North Central Division.....	GG	FF	Oregon.....	AA	(NA)
Iowa.....	GG	FF	California.....	31.1	25.5
Missouri.....	BB	AA			
Kansas.....	BB	AA			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9

BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9

EE.....\$1.0 to \$19.9

FF.....\$20.0 to 49.9

GG.....\$50.0 and over

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies

¹The 1967 data include the values for urea. Due to revisions in the Standard Industrial Classification product classes, urea became product code 28732 15 in 1972.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2861	Gum and wood chemicals.....	300.8	276.8	250.3	230.1	228.5	205.1	197.0	151.2
28611	Softwood distillation products.....	94.1	101.7	98.7	90.5	90.8	81.4	82.4	79.7
28612	Other gum and wood chemicals.....	197.0	175.1	151.6	132.5	128.0	111.6	111.4	71.5
28610	Gum and wood chemicals, n.s.k.....	9.7	-	-	(7.1)	(9.7)	12.2	3.2	-
2865	Cyclic crudes and intermediates.....	2,332.4	2,077.5	2,014.4	1,896.3	1,786.9	1,654.2	1,195.2	893.8
28651	Cyclic intermediates.....	1,538.0	1,308.9	1,308.8	1,207.2	1,137.8	1,066.1	758.6	531.5
28652	Synthetic organic dyes.....	473.6	434.7	397.4	388.9	360.4	325.6	243.1	175.5
28653	Synthetic organic pigments, lakes, and toners.....	224.7	178.2	169.1	198.8	188.5	162.2	111.7	80.2
28655	Cyclic (coal tar) crudes.....	80.9	110.9	100.3	90.4	89.2	87.6	79.3	105.3
28650	Cyclic crudes and intermediates, n.s.k.....	15.2	44.8	(38.8)	11.0	11.0	12.7	2.5	1.2
2869	Industrial organic chemicals, n.e.c. ²	7,465.7	6,814.8	6,470.4	6,356.0	6,056.8	5,539.4	4,183.8	2,787.3
28691	Miscellaneous cyclic chemical products.....	465.0	393.4	371.2	344.1	340.4	315.1	200.5	143.3
28692	Miscellaneous acyclic chemicals, except urea ²	5,435.2	4,696.7	4,525.6	4,718.0	4,461.6	4,052.2	3,129.1	2,126.6
28693	Synthetic organic chemicals, n.e.c., except bulk.....	723.0	785.5	718.7	708.9	672.9	585.6	426.8	291.4
28694	Pesticides and other organic chemicals, not formulas.....	489.3	387.1	331.2	300.1	320.1	308.2	223.4	96.2
28695	Ethyl alcohol, other industrial organic chemicals, n.e.c.....	280.3	492.1	466.2	282.9	260.9	239.4	192.3	121.4
28690	Industrial organic chemicals, n.e.c., n.s.k.....	72.9	(60.0)	(57.5)	2.0	.9	38.7	11.6	8.4

- Represents zero.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Totals prior to 1972 include the values for urea. Due to revisions in the Standard Industrial Classification product classes, urea became product code 28732 15 in 1972.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost (million dollars)	
1972							
	INDUSTRY 2861.--GUM AND WOOD CHEMICALS ¹						
	INDUSTRY 2865.--CYCLIC CRUDES AND INTERMEDIATES						
	Materials, containers, and supplies, total.....			(X)	(X)	945.8	(X)
	Inorganic chemicals:						
	Acids, except spent acids:						
281944	Hydrochloric acid.....	100% HCl..	1,000 s. tons.	50.8	43.5	2.0	7.3
287311	Nitric acid.....	100% HNO ₃..	..do....	589.5	101.4	7.2	488.1
281931	Sulfuric acid.....	100% H ₂ SO ₄..	..do....	800.7	331.0	9.3	469.7
287312	Ammonia synthetic anhydrous.....	100% NH ₃..	..do....	191.9	191.9	7.4	-
281211	Chlorine.....	100% Cl ₂..	..do....	(D)	331.8	16.4	(D)
281228	Sodium carbonate (ash soda).....	58% Na ₂ O..	..do....	42.0	42.0	2.2	-
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	..do....	474.3	474.3	20.7	-
	Organic chemicals:						
286952	Alcohol, ethyl (pure and denatured).....			(X)	(X)	1.0	(X)
286920	Other alcohols, including amyl, butyl, methyl, and propyl.....		Mil. gal..	53.7	53.7	9.3	-
286511	Aniline.....	100%.....	Mil. lb..	(NA)	79.7	12.0	(NA)
286552	Benzol (benzene).....	100% C ₆ H ₆..	..do....	(D)	1,100.3	35.2	(D)
286923	Formaldehyde.....	37% HCHO..	..do....	77.1	77.1	2.2	-
	Liquefied petroleum and refinery gases for chemical feedstocks:						
291165	Ethylene.....		..do....	(D)	(D)	(D)	(D)
291166	Propylene.....		..do....	(D)	(D)	(D)	(D)
291169	Other.....		..do....	(NA)	(D)	(D)	(NA)
286555	Naphthalene grades of 77.5°C or higher.....		Mil. lb..	213.5	(D)	(D)	(D)
286512	Nitrobenzene.....	100%.....	..do....	438.9	12.0	.3	426.9
286513	Phenol.....	100%.....	..do....	61.9	46.4	3.4	15.5
286514	Phthalic anhydride.....	100%.....	..do....	19.2	19.2	1.8	-
286553	Tar, crude.....		1,000 s. tons.	(NA)	1,299.5	38.1	(NA)
	Crude materials:						
147701	Sulfur.....		1,000 l. tons....	(X)	163.5	4.4	(X)
333348	Zinc and zinc-base alloy refinery shapes.....		1,000 s. tons.	(X)	.7	.3	(X)
	Used as raw materials:						
131152	Natural gas.....		Mil.cu.ft.	(X)	6,491.0	3.0	(X)
355911	Parts and attachments for chemical industries, machinery, and equipment.....			(X)	(X)	29.4	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	(X)	630.9	(X)
976000	Materials, containers, and supplies, n.s.k. ²			(X)	(X)	41.0	(X)
1967							
	Materials, containers, and supplies, total.....			(X)	(X)	751.3	(X)
	Inorganic chemicals:						
	Acids, except spent acids:						
281944	Hydrochloric acid.....	100% HCl..	1,000 s. tons.	(NA)	(NA)	(NA)	(NA)
287311	Nitric acid.....	100% HNO ₃..	..do....	288.7	65.7	4.2	223.0
281931	Sulfuric acid.....	100% H ₂ SO ₄..	..do....	477.1	193.6	6.8	283.5
287312	Ammonia synthetic anhydrous.....	100% NH ₃..	..do....	130.8	60.8	3.5	70.0
281211	Chlorine.....	100% Cl ₂..	..do....	324.1	210.8	10.9	113.4
281228	Sodium carbonate (ash soda).....	58% Na ₂ O..	..do....	(NA)	(NA)	(NA)	(NA)
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	..do....	248.3	158.9	8.9	89.4
	Organic chemicals:						
286952	Alcohol, ethyl (pure and denatured).....			(NA)	(NA)	(NA)	(NA)
286920	Other alcohols, including amyl, butyl, methyl, and propyl.....		Mil. gal..	86.0	86.0	10.4	-
286511	Aniline.....	100%.....	Mil. lb..	54.2	54.2	6.5	-
286552	Benzol (benzene).....	100% C ₆ H ₆..	..do....	1,584.5	1,576.3	48.8	8.3
286923	Formaldehyde.....	37% HCHO..	..do....	(NA)	(NA)	(NA)	(NA)
	Liquefied petroleum and refinery gases for chemical feedstocks:						
291165	Ethylene.....		..do....	(D)	(D)	(D)	(D)
291166	Propylene.....		..do....	(NA)	(NA)	(NA)	(NA)
291169	Other.....		..do....	(NA)	(NA)	19.4	(NA)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost	
						(million dollars)	
					1967		
	INDUSTRY 2865.--CYCLIC CRUDES AND INTERMEDIATES--Continued						
	Materials, containers, and supplies--Continued						
	Organic chemicals--Continued						
286555	Naphthalene grades of 77.5°C or higher.....	100%	Mil. lb...	245.3	(D)	(D)	(D)
286512	Nitrobenzene.....	100%	...do....	213.4	8.9	.7	204.6
286513	Phenol.....	100%	...do....	71.6	20.4	2.0	51.2
286514	Phthalic anhydride.....	100%	...do....	51.3	18.9	2.3	32.4
286553	Tar, crude.....		1,000 s. tons.	1,236.0	1,236.0	28.4	-
	Crude materials:						
147701	Sulfur.....		1,000 long tons....	180.0	180.0	6.5	-
333348	Zinc and zinc-base alloy refinery shapes.....		1,000 s. tons.	(NA)	(NA)	(NA)	(NA)
	Used as raw materials:						
131152	Natural gas.....		Mil.cu.ft.	(NA)	(NA)	7.4	(NA)
355911	Parts and attachments for chemical industries, machinery, and equipment.....			(NA)	(NA)	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	(X)	501.4	(X)
976000	Materials, containers, and supplies, n.s.k. ²			(X)	(X)	83.2	(X)
					1972		
	INDUSTRY 2869.--INDUSTRIAL ORGANIC CHEMICALS, N.E.C.						
	Materials, containers, and supplies, total.....			(X)	(X)	3,436.5	(X)
	Inorganic chemicals:						
	Acids, except spent acids:						
281944	Hydrochloric acid.....	100% HCl..	1,000 s. tons.	1,324.5	396.1	14.8	928.4
281946	Hydrofluoric acid.....	100% HF...	...do....	144.6	(D)	(D)	(D)
287311	Nitric acid.....	100% HNO ₃..	...do....	982.4	221.2	15.9	761.2
287410	Phosphoric acid.....	100% P ₂ O ₅..	...do....	44.2	(D)	(D)	(D)
281931	Sulfuric acid.....	100% H ₂ SO ₄..	...do....	1,363.6	1,202.1	25.3	161.5
287312	Ammonia, synthetic, anhydrous.....	100% NH ₃..	...do....	1,503.8	640.0	25.4	863.8
281211	Chlorine.....	100% Cl ₂..	...do....	6,903.6	1,789.3	76.4	5,114.3
281996	Phosphorus, elemental.....	Technical.	...do....	59.8	(D)	(D)	(D)
281228	Sodium carbonate (soda ash).....	58% Na ₂ O..	...do....	56.7	(D)	(D)	(D)
281238	Sodium hydroxide (caustic soda).....	100% NaOH.	...do....	1,742.9	793.6	38.3	949.3
	Organic chemicals:						
286952	Alcohol, ethyl (pure and denatured).....			(X)	(X)	39.8	(X)
286920	Other alcohols, including amyl, butyl, methyl, and propyl.....		Mil. gal..	1,135.4	917.5	122.4	217.9
286511	Aniline.....	100%	Mil. lb...	(NA)	122.6	15.9	(NA)
286552	Benzol (benzene).....	100% C ₆ H ₆..	...do....	3,168.6	2,793.0	80.0	375.6
286923	Formaldehyde.....	37% HCHO..	...do....	2,416.3	233.7	5.2	2,182.6
	Liquefied petroleum and refinery gases for chemical feedstocks:						
291165	Ethylene.....		...do....	11,275.9	4,788.9	154.9	6,487.0
291164	Propane.....		...do....	(NA)	7,791.6	98.2	(NA)
291166	Propylene.....		...do....	3,843.5	2,043.4	54.6	1,800.1
291169	Other, including mixtures.....		...do....	(NA)	1,462.4	173.3	(NA)
286555	Naphthalene.....		...do....	612.8	612.8	27.8	-
286513	Phenol.....	100%	...do....	464.2	(D)	(D)	(D)
286514	Phthalic anhydride.....	100%	...do....	443.7	151.9	11.2	291.8
	Crude materials:						
147701	Sulfur.....		1,000 long tons....	(X)	462.7	13.1	(X)
	Used as raw materials:						
131152	Natural gas.....		Mil.cu.ft.	(X)	241,928.0	64.8	(X)
355911	Parts and attachments for chemical industries, machinery, and equipment.....			(X)	(X)	114.0	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	(X)	2,096.9	(X)
976000	Materials, containers, and supplies, n.s.k. ²			(X)	(X)	104.9	(X)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost (million dollars)	
1967							
	INDUSTRY 2869.--INDUSTRIAL ORGANIC CHEMICALS, N.E.C.--Continued						
	Materials, containers, and supplies, total.....			(X)	(X)	2,398.1	(X)
	Inorganic chemicals:						
	Acids, except spent acids:						
281944	Hydrochloric acid.....	100% HCl..	1,000 s. tons.	(S)	(S)	13.8	(S)
281946	Hydrofluoric acid.....	100% HF...	..do....	92.4	60.3	16.5	32.1
287311	Nitric acid.....	100% HNO ₃..	..do....	(S)	(S)	14.1	(S)
287410	Phosphoric acid.....	100% P ₂ O ₅..	..do....	(NA)	(NA)	(Z)	(NA)
281931	Sulfuric acid.....	100% H ₂ SO ₄..	..do....	1,702.0	1,112.6	24.1	589.5
287312	Ammonia, synthetic, anhydrous.....	100% NH ₃..	..do....	1,203.7	510.2	23.8	693.5
281211	Chlorine.....	100% Cl....	..do....	4,594.6	1,505.4	71.9	3,089.2
281996	Phosphorus, elemental.....	Technical..	..do....	17.3	10.5	3.2	6.8
281228	Sodium carbonate (soda ash).....	58% Na ₂ O..	..do....	56.5	48.0	2.0	8.5
281238	Sodium hydroxide (caustic soda).....	100% NaOH..	..do....	(S)	613.7	27.8	(S)
	Organic chemicals:						
286952	Alcohol, ethyl (pure and denatured).....	..do....	..do....	(X)	(X)	41.4	(X)
286920	Other alcohols, including amyl, butyl, methyl, and propyl.....	..do....	Mil. gal..	(NA)	(NA)	88.2	(NA)
286511	Aniline.....	100%.....	Mil. lb....	79.5	79.5	9.5	-
286552	Benzol (benzene).....	100% C ₆ H ₆..	..do....	1,225.7	(D)	(³)	(D)
286923	Formaldehyde.....	37% HCHO..	..do....	1,238.8	102.2	3.0	1,136.7
	Liquefied petroleum and refinery gases for chemical feedstocks:						
291165	Ethylene.....	..do....	..do....	7,208.8	2,547.5	97.9	4,661.3
291164	Propane.....	..do....	..do....	(S)	(S)	35.2	-
291166	Propylene.....	..do....	..do....	2,604.4	1,841.3	41.0	763.2
291169	Other, including mixtures.....	..do....	..do....	(NA)	(NA)	103.3	(NA)
286555	Naphthalene.....	..do....	..do....	397.2	397.2	17.6	-
286513	Phenol.....	100%.....	..do....	487.7	344.2	30.7	143.5
286514	Phthalic anhydride.....	100%.....	..do....	297.6	124.0	12.8	173.6
	Crude materials:						
147701	Sulfur.....	..do....	1,000 long tons.....	665.0	665.0	22.6	-
	Used as raw materials:						
131152	Natural gas.....	..do....	Mil. cu. ft.	(S)	(S)	62.0	-
355911	Parts and attachments for chemical industries, machinery, and equipment.....	..do....	..do....	(X)	(X)	(X)	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....	..do....	..do....	(X)	(X)	³ 1,434.8	(X)
976000	Materials, containers, and supplies, n.s.k. ².....	..do....	..do....	(X)	(X)	200.9	(X)

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error or on the basis of a consistency review. (Z) Less than half of the unit of measurement shown. n.e.c. Not elsewhere classified.

¹Materials data are not applicable to this industry.

²This item represents the total cost of materials for establishments that did not report detailed materials data. It also includes estimates for companies that were not mailed report forms.

³Code 286552 combined with code 970099 for 1967.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 2861.—GUM AND WOOD CHEMICALS					
	Purchased fuels and electric energy.....		(X)	6.6	(X)	8.2
	Purchased fuels, total.....		(X)	5.3	(X)	6.5
121005	Coal.....	1,000 s. tons.....	-	-	21	.2
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	414.0	1.7	192	.8
291141	Distillate.....	...do.....	140.5	.6	91	.4
291151	Residual.....	...do.....	273.6	1.1	101	.4
131300	Natural gas.....	Billion ft³.....	5.2	2.0	5.3	1.8
960011	Other fuels.....		(X)	1.4	(X)	3.7
975000	Fuels, n.s.k.....		(X)	.2	(X)	-
960012	Purchased electric energy.....	Million kWh.....	170.3	1.3	130	1.7
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	65	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.9	-	3.0	-
	INDUSTRY 2865.—CYCLIC CRUDES AND INTERMEDIATES					
	Purchased fuels and electric energy.....		(X)	91.4	(X)	54.1
	Purchased fuels, total.....		(X)	60.6	(X)	33.2
121005	Coal.....	1,000 s. tons.....	497.0	5.5	1,103.1	7.8
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	4,748.1	21.0	1,986.5	5.0
291141	Distillate.....	...do.....	3,148.8	14.0	310.6	1.1
291151	Residual.....	...do.....	1,599.3	7.0	1,675.9	3.9
131300	Natural gas.....	Billion ft³.....	69.4	25.0	33.2	15.0
960011	Other fuels.....		(X)	6.1	(X)	(Z)
975000	Fuels, n.s.k.....		(X)	3.0	(X)	5.4
960012	Purchased electric energy.....	Million kWh.....	3,323.7	30.8	2,574.0	20.9
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	168.9	-
	Total energy used for heat and power.....	Bil. kWh equiv....	40.3	-	30.2	-
	INDUSTRY 2869.—INDUSTRIAL ORGANIC CHEMICALS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	402.2	(X)	263.6
	Purchased fuels, total.....		(X)	269.1	(X)	180.5
121005	Coal.....	1,000 s. tons.....	5,036.6	47.8	4,392.8	33.7
331212	Coke.....	...do.....	(S)	.1	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	4,358.0	18.1	2,680.8	7.1
291141	Distillate.....	...do.....	2,254.2	10.0	1,168.2	3.5
291151	Residual.....	...do.....	2,103.8	8.0	1,512.6	3.6
131300	Natural gas.....	Billion ft³.....	586.1	165.3	551.6	108.8
960011	Other fuels.....		(X)	35.8	(X)	1.7
975000	Fuels, n.s.k.....		(X)	2.0	(X)	29.2
960012	Purchased electric energy.....	Million kWh.....	19,700.8	133.1	13,378.0	83.1
	Quantity of electric energy generated less quantity sold....	...do.....	(D)	-	11,385.6	-
	Total energy used for heat and power.....	Bil. kWh equiv....	286.0	-	247.5	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
 (S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

Agricultural Chemicals

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EXPLANATORY TEXT

AGRICULTURAL CHEMICALS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 2873—Nitrogenous Fertilizers
- 2874—Phosphatic Fertilizers
- 2875—Fertilizers, Mixing Only
- 2879—Pesticides and Agricultural Chemicals, N.E.C.*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2873.—NITROGENOUS FERTILIZERS

This industry comprises establishments primarily engaged in manufacturing nitrogenous fertilizer materials or mixed fertilizers from nitrogenous materials produced in the same establishment. Included are ammonia fertilizer compounds and anhydrous ammonia, nitric acid, ammonium nitrate, ammonium sulfate and nitrogen solutions, urea, and natural organic fertilizers (except compost) and mixtures.

Establishments primarily engaged in manufacturing industrial inorganic chemicals, n.e.c., are classified in industry 2819 (Industrial Inorganic Chemicals, N.E.C.) and industrial organic chemicals, n.e.c., in industry 2869 (Industrial Organic Chemicals, N.E.C.). For a detailed list of products of industry 2873, refer to table 6A, product codes 28731 11 to 28733 85.

*Note that the "short title" for this industry is used throughout the report.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual and a new SIC number and title were assigned. Industry 2873, Nitrogenous Fertilizers, was formed by combining synthetic ammonia, nitric acid, and ammonium compounds (formerly classified as product class 28191); urea (formerly in product class 28182); and fertilizer materials of organic origin (formerly product code 28712 85).

The effect of the revisions on the data are summarized in Table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 76 establishments with 9.5 thousand total employment and \$453.0 million value added, now classified as industry 2873, would have been classified in different industries under the old SIC. Seven establishments with 1.3 thousand total employment and \$85.6 million value added would have been classified in industry 2818; 60 establishments with 8.1 thousand total employment and \$364.5 million value added would have been classified in industry 2819; and 9 establishments with .1 thousand total employment and \$2.9 million value added would have been classified in industry 2871.

Value of shipments and other receipts of the Nitrogenous Fertilizers Industry in 1972 totaled \$808.4 million. This included shipments of nitrogenous fertilizers (primary products) valued at \$647.5 million, shipments of other products (secondary products) valued at \$114.7 million, and miscellaneous receipts (mainly resales and contract work) of \$46.2 million.

Shipments of nitrogenous fertilizers (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of phosphatic fertilizers (\$20 to \$50 million) and industrial inorganic chemicals, n.e.c., (\$25.7 million).

Shipments of nitrogenous fertilizers (primary products) from establishments classified in industry 2873 in 1972 represented 69 percent (coverage ratio) of these products valued at \$937.3 million shipped by all industries. Other industries shipping nitrogenous fertilizers consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$94.2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2873, these establishments accounted for 0 percent of value of shipments.

INDUSTRY 2874.—PHOSPHATIC FERTILIZERS

This industry comprises establishments primarily engaged in manufacturing phosphatic fertilizer materials or mixed fertilizers from phosphatic materials produced in the same establishment. Included are phosphoric acid; normal, enriched, and concentrated superphosphates; ammonium phosphates; nitrophosphates; and calcium metaphosphates.

Establishments primarily engaged in manufacturing industrial inorganic chemicals, n.e.c., are classified in industry 2819 (Industrial Inorganic Chemicals, N.E.C.). For a detailed list of products of industry 2874, refer to table 6A, product codes 28741 81 to 28743 78.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual and a new SIC number and title were assigned.

Industry 2874, Phosphatic Fertilizers, was formed by combining phosphoric acid, formerly classified in product class 28194, with superphosphate, other phosphatic fertilizer materials, and mixed fertilizers produced from one or more materials made in same plant, which formerly were classified as industry 2871. The production of fertilizer materials of organic origin, formerly product code 28712 85, was reclassified to industry 2873.

The effect of the revisions on the data are summarized in Table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, the 145 establishments with 14.9 thousand total employment and \$426.4 million value added which are now classified in industry 2874 would have been classified in different industries under the old SIC; 135 establishments with 14.0 thousand employees and \$400.9 million value added would have been classified in industry 2871; 10 establishments with 1.0 thousand employees and \$25.4 million value added would have been classified in industry 2819; and 9 establishments with .1 thousand employees and \$2.9 million value added, which would have been classified in industry 2871, are now classified in industry 2873.

Value of shipments and other receipts of the Phosphatic Fertilizers Industry in 1972 totaled \$1,178.9 million. This included shipments of phosphatic fertilizers (primary products) valued at \$973.3 million, shipments of other products (secondary products) valued at \$125.0 million, and miscellaneous receipts (mainly resales) of \$80.6 million.

Shipments of phosphatic fertilizers (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of nitrogenous fertilizers (\$79.5 million) and industrial inorganic chemicals, n.e.c., (\$28.2 million).

Shipments of phosphatic fertilizers (primary products) from establishments classified in industry 2874 in 1972 repre-

sented 92 percent (coverage ratio) of these products valued at \$1,052.5 million shipped by all industries. Other industries shipping phosphatic fertilizers consisted mainly of industry 2819, Industrial Inorganic Chemicals, N.E.C., (\$36.5 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2874, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 2875.—FERTILIZERS, MIXING ONLY

This industry comprises establishments primarily engaged in mixing fertilizers from purchased fertilizer materials. For a detailed list of products of industry 2875, refer to table 6A, product codes 28752 13 to 28752 78.

The 1972 definition of this industry is the same as that used in the 1967 classification system. However, the SIC number has been changed from 2872 to 2875.

Value of shipments and other receipts of the Fertilizers, Mixing Only, Industry in 1972 totaled \$799.9 million. This included shipments of fertilizers, mixing only, (primary products) valued at \$631.2 million, shipments of other products (secondary products) valued at \$27.4 million, and miscellaneous receipts (mainly resales) of \$141.3 million.

Shipments of fertilizers, mixing only, (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 96 percent. Secondary products shipped by this industry in 1972 consisted mainly of agricultural chemicals, n.e.c., (\$10 to \$20 million).

Shipments of fertilizers, mixing only, (primary products) from establishments classified in industry 2875 in 1972 represented 97 percent (coverage ratio) of these products valued at \$651.9 million shipped by all industries. In 1967, the coverage ratio was also 97 percent. Other industries shipping fertilizers, mixing only, (primary products) consisted mainly of industry 2874, Phosphatic Fertilizers, (\$5 to \$10 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2875, these establishments accounted for 10 percent of value of shipments.

INDUSTRY 2879.—AGRICULTURAL CHEMICALS, N.E.C.
(Short Title)

This industry comprises establishments primarily engaged in the formulation and preparation of ready-to-use agricultural and household pest-control chemicals, including insecticides, fungicides, and herbicides from technical chemicals or concentrates; and the production of concentrates which require further processing before use as agricultural pesticides. This industry also includes establishments primarily engaged in manufacturing or formulating agricultural chemicals, not elsewhere classified, such as minor or trace elements and soil conditioners.

Establishments primarily engaged in manufacturing basic or technical agricultural pest-control chemicals including insecticides, fungicides, and herbicides such as lead and calcium arsenates and copper sulfate are classified in SIC group 281, Industrial Inorganic Chemicals, and DDT, BHC, 2,4-D carbamates, etc., in SIC group 286, Industrial Organic Chemicals. Establishments primarily engaged in manufacturing agricultural lime products are classified in SIC Major Group 32, Stone, Clay, and Glass Products. For a detailed list of products of industry 2879, refer to table 6A, product codes 28791 10 to 28794 89.

The 1972 definition of this industry has been significantly revised from that used in the 1967 SIC manual; however, the SIC number and title are unchanged. The industry as now constituted includes the manufacture of household insecticides and repellants which were previously classified as product class 28421 in industry 2842.

The effect of the revisions on the data are summarized in Table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC.

As can be seen from table 1C, 89 establishments with .8 thousand total employment and \$41.6 million value added which are now classified in industry 2879 would have been classified in industry 2842 under the old SIC.

Value of shipments and other receipts of the Agricultural Chemicals, N.E.C., Industry in 1972 totaled \$1,150.8 million. This included shipments of agricultural chemicals, n.e.c., (primary products) valued at \$867.0 million, shipments of other products (secondary products) valued at \$130.8 million, and miscellaneous receipts (mainly resales) of \$153.0 million.

Shipments of agricultural chemicals, n.e.c., (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c., (\$40.7 million) and industrial inorganic chemicals, n.e.c., (\$21.5 million).

Shipments of agricultural chemicals, n.e.c., (primary products) from establishments classified in industry 2879 in 1972 represented 72 percent (coverage ratio) of these products valued at \$1,196.2 million shipped by all industries. In 1967, the coverage ratio was also 72 percent. Other industries shipping agricultural chemicals, n.e.c., consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$107.3 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2879, these establishments accounted for 3 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2873.--NITROGENOUS FERTILIZERS															
1972 Census.....	76	69	9.5	105.7	6.2	13.4	65.5	453.0	366.2	808.4	33.4	(NA)	118.1	85	69
INDUSTRY 2874.--PHOSPHATIC FERTILIZERS															
1972 Census.....	145	115	14.9	135.1	10.8	23.1	91.9	426.4	740.9	1,178.9	65.8	(NA)	157.8	89	92
INDUSTRY 2875.--FERTILIZERS, MIXING ONLY															
1972 Census.....	625	188	11.4	82.5	7.2	14.2	41.4	263.6	542.5	799.9	17.2	(NA)	143.9	96	97
1971 ASM.....	(NA)	(NA)	10.4	70.2	6.4	13.1	36.1	231.8	454.3	691.8	10.5	231.7	124.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	11.8	72.4	7.3	14.9	36.1	231.6	471.4	705.5	*27.4	264.8	126.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	13.2	83.2	8.3	16.9	43.1	224.8	539.1	770.9	19.7	238.8	138.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	13.5	77.9	8.7	17.6	40.0	225.1	538.7	761.6	16.6	258.7	138.2	(NA)	(NA)
1967 Census.....	721	210	13.4	70.6	8.9	17.8	37.5	195.3	535.7	731.1	18.0	243.5	133.2	96	97
1966 ASM.....	(NA)	(NA)	14.5	67.7	9.8	19.3	37.9	213.6	531.1	734.9	16.6	(NA)	135.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	14.2	63.8	9.7	19.0	35.4	195.4	503.7	690.1	16.0	(NA)	124.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	13.8	62.2	9.1	18.2	33.9	188.5	489.1	668.2	16.8	235.3	116.7	(NA)	(NA)
1963 Census.....	733	232	13.8	59.4	9.3	18.7	33.7	164.1	459.2	623.1	12.0	221.8	108.2	94	96
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	210.2	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	685	202	12.2	43.6	8.3	15.9	25.6	105.8	333.3	438.6	8.7	(NA)	71.0	(NA)	(NA)
INDUSTRY 2879.--AGRICULTURAL CHEMICALS, N.E.C.															
1972 Census, new SIC.	388	113	12.2	116.5	6.8	13.2	53.5	598.9	547.4	1,150.8	39.5	(NA)	183.5	87	72
1972 Census, old SIC.	299	98	11.4	109.0	7.3	12.4	50.7	557.4	511.6	1,074.8	38.6	(NA)	173.2	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	11.9	102.6	6.5	12.4	45.4	507.9	455.9	963.9	28.6	410.5	166.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	12.2	101.9	6.7	12.7	45.3	452.1	411.3	859.0	41.0	410.5	165.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	12.3	94.6	7.4	14.7	45.9	505.1	491.4	976.7	75.9	374.4	171.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	12.1	85.2	7.4	13.8	41.4	414.0	488.6	902.4	(64.7)	314.6	147.1	(NA)	(NA)
1967 Census.....	344	115	11.5	80.7	6.9	13.6	39.0	376.3	460.8	817.0	54.0	272.9	145.6	87	72
1966 ASM.....	(NA)	(NA)	11.0	72.8	6.2	12.1	32.5	277.6	425.2	692.7	25.4	(NA)	137.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.2	60.5	5.9	11.0	28.5	229.3	351.4	588.3	19.0	(NA)	110.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.0	52.8	5.2	10.8	24.1	181.5	302.6	478.6	12.4	143.9	96.5	(NA)	(NA)
1963 Census.....	340	112	9.1	51.5	5.3	10.6	24.4	176.3	307.0	476.7	9.1	129.1	93.3	87	69
1962 ASM.....	(NA)	(NA)	8.7	46.3	5.1	10.2	20.9	146.4	292.7	431.7	7.5	120.9	76.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	8.4	43.6	5.1	10.1	20.2	137.2	275.8	406.7	5.6	(NA)	70.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	8.9	45.0	5.3	10.1	20.0	142.4	262.8	398.0	7.8	(NA)	68.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	8.5	41.2	5.1	9.5	19.2	127.5	243.2	364.1	7.9	(NA)	65.2	(NA)	(NA)
1958 Census.....	337	101	7.8	37.8	4.9	9.5	18.6	111.0	223.2	333.1	7.0	(NA)	62.5	90	74

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last years in which censuses were conducted.

	Industry 2873	Industry 2874	Industry 2875	Industry 2879
1972.....	48	65	444	298
1967.....	(NA)	(NA)	496	223
1963.....	(NA)	(NA)	537	241

The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual industry level these estimates may be of limited reliability. However, they may be combined with other industry totals into broader aggregates which are of acceptable reliability.

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar of shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2873.--NITROGENOUS FERTILIZERS											
1972 Census.....	11,126	(NA)	65	2,161	4.89	.45	.58	(NA)	47,684	23	33.81
INDUSTRY 2874.--PHOSPHATIC FERTILIZERS											
1972 Census.....	9,067	(NA)	72	2,139	3.97	.62	.74	(NA)	28,617	32	18.45
INDUSTRY 2875.--FERTILIZERS, MIXING ONLY											
1972 Census.....	7,236	(NA)	63	1,972	2.91	.68	.78	(NA)	23,123	31	18.56
1971 ASM.....	6,750	22,280	62	2,047	2.76	.66	.76	.33	22,288	30	17.70
1970 ASM.....	6,136	22,440	62	2,041	2.42	.67	.77	.38	19,627	31	15.54
1969 ASM.....	6,303	18,090	63	2,036	2.55	.70	.81	.31	17,030	37	13.30
1968 ASM.....	5,770	19,160	64	2,023	2.27	.71	.81	.34	16,674	35	12.79
1967 Census.....	5,250	18,170	66	2,007	2.10	.73	.83	.33	14,529	36	10.96
1966 ASM.....	4,654	(NA)	68	1,967	1.96	.72	.81	(NA)	14,696	32	11.05
1965 ASM.....	4,503	(NA)	69	1,953	1.86	.73	.82	(NA)	13,785	33	10.29
1964 ASM.....	4,518	17,050	66	1,994	1.86	.73	.83	.35	13,694	33	10.35
1963 Census.....	4,319	16,070	68	2,003	1.80	.74	.83	.36	11,936	36	8.77
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	3,586	(NA)	68	1,916	1.61	.76	.86	(NA)	8,704	41	6.64
INDUSTRY 2879.--AGRICULTURAL CHEMICALS, N.E.C.											
1972 Census, new SIC...	9,549	(NA)	.56	1,941	4.05	.48	.58	(NA)	49,090	19	45.37
1972 Census, old SIC...	9,561	(NA)	.64	1,699	4.09	.48	.58	(NA)	48,895	20	44.95
1971 ASM.....	8,626	34,500	.55	1,907	3.66	.47	.58	.43	43,521	20	40.96
1970 ASM.....	8,352	33,600	.55	1,895	3.57	.48	.60	.48	37,057	23	35.60
1969 ASM.....	7,691	30,400	.60	1,986	3.12	.50	.60	.38	41,065	19	34.36
1968 ASM.....	7,041	26,000	.61	2,022	3.00	.54	.64	.35	34,214	21	30.00
1967 Census.....	7,005	23,700	.60	1,954	2.88	.56	.66	.33	32,722	21	72.67
1966 ASM.....	6,604	(NA)	.56	1,953	2.69	.61	.72	(NA)	25,167	26	22.98
1965 ASM.....	5,954	(NA)	.58	1,870	2.60	.60	.70	(NA)	22,582	26	20.98
1964 ASM.....	5,841	16,000	.58	2,069	2.23	.63	.74	.30	20,067	29	16.82
1963 Census.....	5,662	14,200	.58	2,014	2.30	.64	.75	.27	19,399	29	16.58
1962 ASM.....	5,324	13,900	.59	1,996	2.05	.68	.79	.28	16,845	32	14.37
1961 ASM.....	5,187	(NA)	.61	1,975	2.00	.68	.79	(NA)	16,304	32	13.57
1960 ASM.....	5,079	(NA)	.60	1,916	1.97	.66	.77	(NA)	16,073	32	14.05
1959 ASM.....	4,878	(NA)	.60	1,868	2.02	.67	.78	(NA)	15,078	32	13.40
1958 ASM.....	4,851	(NA)	.63	1,932	1.96	.67	.78	(NA)	14,248	34	11.68

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 2873.--Nitrogenous Fertilizers.....	76	69	9.5	453.0	808.4	(X)	(X)	(X)	(X)	(X)
Old industry 2818.--Industrial Organic Chemicals, N.E.C....	7	7	1.3	85.6	116.0	521	302	98.4	4,881.4	8,956.3
Old industry 2819.--Industrial Inorganic Chemicals, N.E.C....	60	57	8.1	364.5	685.9	782	379	76.7	2,608.3	4,951.4
Old industry 2871.--Fertilizers.....	9	5	.1	2.9	6.5	159	116	14.5	415.8	1,119.9
New industry 2874.--Phosphatic Fertilizers.....	145	115	14.9	426.4	1,178.9	(X)	(X)	(X)	(X)	(X)
Old industry 2819.--Industrial Inorganic Chemicals, N.E.C....	10	7	1.0	25.4	99.8	782	379	76.7	2,608.3	4,951.4
Old industry 2871.--Fertilizers.....	135	108	14.0	400.9	1,079.1	159	116	14.5	415.8	1,119.9
New industry 2879.--Agricultural Chemicals, N.E.C.....	388	113	12.2	598.9	1,150.8	(X)	(X)	(X)	(X)	(X)
Old industry 2842.--Polishes and Sanitation Goods.....	89	15	.8	41.6	75.9	868	207	22.0	978.6	1,535.7
Old industry 2879.--Agricultural Chemicals, N.E.C.....	299	98	11.4	557.4	1,074.8	299	98	11.4	557.4	1,074.8

(X) Not applicable.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2873-- NITROGENOUS FERTILIZERS													
UNITED STATES.	76	69	9.5	105.7	6.2	13.4	65.5	453.0	366.2	808.4	33.4	(NA)	(NA)
NORTHEAST REGION.	5	5	.2	2.2	.2	.4	1.5	8.2	10.6	16.1	.7	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . .	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	26	22	3.0	32.2	1.9	4.1	18.6	112.1	126.5	237.5	9.4	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	11	8	1.0	11.2	.6	1.4	6.3	34.1	35.6	68.5	2.1	(NA)	(NA)
OHIO.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	15	14	2.0	20.9	1.3	2.7	12.3	78.0	90.9	169.0	7.3	(NA)	(NA)
IOWA.	4	3	.4	4.7	.3	.6	2.5	18.9	37.0	55.9	.9	(NA)	(NA)
MISSOURI.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA.	5	5	.4	4.4	.3	.6	2.8	18.7	16.2	34.3	.7	(NA)	(NA)
KANSAS.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	32	30	5.4	58.6	3.4	7.5	36.7	280.6	190.5	462.9	20.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	7	6	1.3	12.6	.7	1.4	6.0	33.8	33.4	68.2	1.3	(NA)	(NA)
VIRGINIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	7	7	1.5	15.7	1.0	2.3	9.9	84.1	60.8	135.9	3.7	(NA)	(NA)
TENNESSEE.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	18	17	2.5	30.3	1.8	3.8	20.9	162.7	96.4	258.8	15.8	(NA)	(NA)
ARKANSAS.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	4	4	1.4	17.5	1.0	2.1	12.0	90.8	52.4	144.4	13.7	(NA)	(NA)
OKLAHOMA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	10	9	.6	7.6	.5	1.0	5.4	34.9	27.5	61.5	1.6	(NA)	(NA)
WEST REGION.	13	12	1.0	12.7	.7	1.4	8.6	52.2	38.6	90.0	2.6	(NA)	(NA)
MOUNTAIN DIVISION.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	11	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	7	6	.5	6.1	.4	.7	4.3	19.3	17.7	36.1	.6	(NA)	(NA)
2874-- PHOSPHATIC FERTILIZERS													
UNITED STATES.	145	115	14.9	135.1	10.8	23.1	91.9	426.4	740.9	1 178.9	65.8	(NA)	(NA)
NORTHEAST REGION.	9	5	.3	2.5	.2	.4	1.4	6.2	12.6	18.0	1.1	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . E1	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. E2	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	30	20	1.6	15.0	1.1	2.2	8.0	41.6	99.2	143.1	3.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	20	14	1.0	8.4	.6	1.3	4.6	18.7	58.7	79.2	1.1	(NA)	(NA)
OHIO.	6	4	.2	1.5	.2	.3	.9	1.7	8.3	12.3	.2	(NA)	(NA)
ILLINOIS.	9	8	.5	5.1	.4	.8	2.9	12.6	33.4	45.7	.8	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	10	6	.7	6.7	.4	.9	3.3	22.9	40.6	63.8	2.7	(NA)	(NA)
IOWA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	85	75	11.0	98.2	8.3	18.0	70.5	306.8	539.7	858.8	44.1	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	50	46	7.9	69.3	6.0	13.1	49.5	195.1	341.0	538.5	33.5	(NA)	(NA)
MARYLAND.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA.	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA.	8	7	1.3	12.1	1.0	2.1	9.5	33.1	40.2	72.8	5.3	(NA)	(NA)
SOUTH CAROLINA.	7	6	.4	2.3	.3	.5	1.3	7.2	14.4	21.2	1.0	(NA)	(NA)
GEORGIA.	12	11	.8	5.1	.6	1.2	3.2	12.5	33.8	46.9	.6	(NA)	(NA)
FLORIDA.	16	16	4.7	44.2	3.7	8.1	32.0	130.8	226.0	359.5	25.8	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	20	17	1.2	9.3	.9	2.1	7.3	34.1	51.9	94.8	6.9	(NA)	(NA)
TENNESSEE.	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	9	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	15	12	2.0	20.4	1.5	2.9	13.8	77.5	146.7	225.5	3.6	(NA)	(NA)
ARKANSAS.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	8	7	1.1	10.7	.8	1.5	7.2	44.1	56.6	100.6	(D)	(NA)	(NA)
WEST REGION.	21	15	1.9	18.7	1.2	2.6	12.2	71.8	89.3	159.0	16.8	(NA)	(NA)
MOUNTAIN DIVISION.	10	7	.9	8.1	.6	1.5	6.1	25.5	43.4	68.2	10.3	(NA)	(NA)
IDAHO.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	11	8	1.0	10.5	.6	1.1	6.0	46.3	46.0	90.8	6.5	(NA)	(NA)
CALIFORNIA.	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2875-- FERTILIZERS, MIXING ONLY													
UNITED STATES. E1	625	188	11.4	82.5	7.2	14.2	41.4	263.6	542.5	799.9	17.2	13.4	195.3
NORTHEAST REGION. E2	73	24	1.1	8.2	.8	1.5	4.5	17.6	48.1	64.6	1.0	1.5	18.0
NEW ENGLAND DIVISION. E1	19	5	.3	2.2	.2	.3	1.0	4.9	11.1	16.1	.3	BB	(D)
MIDDLE ATLANTIC DIVISION. . . E2	54	19	.8	6.0	.6	1.2	3.6	12.7	37.0	48.5	.7	EE	(D)
NEW YORK. E1	18	8	.3	2.1	.2	.5	1.4	3.7	16.2	19.6	.3	.3	4.2
NEW JERSEY. E1	11	4	.2	1.5	.1	.3	.8	2.9	6.0	8.7	.1	.2	2.6
PENNSYLVANIA. E3	25	7	.3	2.5	.2	.5	1.4	6.1	14.8	20.3	.2	CC	(D)

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2875-- FERTILIZERS, MIXING ONLY--CON.													
NORTH CENTRAL REGION E1	223	50	3.7	29.2	2.2	4.3	14.4	119.2	211.2	327.0	8.6	4.4	83.4
EAST NORTH CENTRAL DIVISION. . .	144	40	2.9	22.8	1.7	3.1	10.5	102.1	170.6	270.1	5.4	3.3	67.3
OHIO	41	17	1.2	9.1	.8	1.4	4.9	66.8	81.3	146.6	2.9	1.1	33.5
INDIANA	38	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	10.6
ILLINOIS	26	6	.5	4.7	.2	.5	1.6	11.7	31.0	42.0	.4	.8	12.8
MICHIGAN	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	6.1
WISCONSIN	22	4	.2	1.5	.2	.2	1.0	4.1	12.0	16.1	.4	.3	4.4
WEST NORTH CENTRAL DIVISION. . E2	79	10	.9	6.4	.6	1.2	3.8	17.1	40.5	56.9	3.2	1.1	16.5
MINNESOTA E2	30	2	.2	1.4	.1	.3	.8	2.8	9.4	12.3	1.0	.3	8.3
IOWA	12	4	.4	3.2	.3	.6	2.0	9.3	18.7	26.7	1.8	.4	5.9
SOUTH REGION	282	106	5.9	38.9	3.8	7.6	20.4	102.8	260.1	362.3	6.5	6.5	79.8
SOUTH ATLANTIC DIVISION.	182	77	4.4	29.5	2.8	5.7	15.1	73.1	190.9	264.7	4.6	4.8	57.6
MARYLAND	17	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA	23	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA	32	15	.9	5.4	.6	1.2	2.8	17.6	37.3	54.3	.8	.8	7.9
SOUTH CAROLINA E4	17	4	.2	1.4	.1	.3	.6	1.4	7.1	9.4	.4	.4	5.4
GEORGIA	35	12	.6	3.4	.4	.6	2.1	10.1	22.7	33.0	.6	.7	5.7
FLORIDA	51	28	1.4	10.9	.8	1.8	4.8	22.1	72.1	94.0	1.4	1.7	22.9
EAST SOUTH CENTRAL DIVISION. . .	54	19	.9	5.8	.7	1.3	3.2	19.3	41.2	59.7	1.0	.9	10.4
KENTUCKY	16	6	.3	1.6	.2	.4	.9	4.4	13.9	17.7	.3	.3	3.2
TENNESSEE	13	7	.3	2.1	.2	.4	1.0	6.9	14.9	21.5	.3	.2	2.7
ALABAMA E1	14	3	.2	1.2	.1	.3	.7	4.6	6.8	11.7	.3	.4	3.7
MISSISSIPPI E1	11	3	.2	.9	.1	.3	.6	3.4	5.6	8.9	.1	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	46	10	.6	3.6	.4	.6	2.1	10.4	28.0	37.9	.9	.8	11.9
TEXAS	28	8	.5	2.9	.4	.4	1.5	8.0	20.9	28.3	.8	.7	11.4
WEST REGION	47	8	.6	6.1	.4	.6	2.2	16.5	30.6	46.0	1.1	1.1	14.1
PACIFIC DIVISION	36	7	.6	5.6	.3	.6	2.0	14.6	26.9	40.6	1.0	.8	9.9
CALIFORNIA E1	24	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2879-- AGRICULTURAL CHEMICALS, NEC													
UNITED STATES	388	113	12.2	116.5	6.8	13.2	53.5	598.9	547.4	1 150.8	39.5	11.5	376.3
NORTHEAST REGION	56	17	2.2	21.0	1.1	2.4	9.5	75.2	59.5	136.4	2.7	2.2	54.5
MIDDLE ATLANTIC DIVISION	47	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	53.3
NEW YORK E1	17	2	.2	1.0	.1	.2	.6	2.3	4.2	6.5	.2	BB	(D)
NEW JERSEY	15	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA	15	5	.8	8.4	.3	.5	2.2	11.1	13.0	24.6	.4	FF	(D)
NORTH CENTRAL REGION	89	28	3.3	37.6	1.7	3.3	15.5	194.7	157.6	350.5	12.6	2.3	78.2
EAST NORTH CENTRAL DIVISION. . .	46	14	1.7	20.5	.9	1.8	9.8	124.0	67.0	190.7	8.4	1.0	37.1
OHIO	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
INDIANA	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ILLINOIS	18	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION. . .	43	14	1.6	17.1	.8	1.5	5.9	70.7	90.7	159.9	4.2	1.3	41.1
MISSOURI	23	7	1.2	12.7	.5	.9	3.8	39.2	42.2	81.2	3.6	CC	(D)
SOUTH REGION	161	51	4.8	40.8	2.9	5.6	19.8	247.5	245.2	499.8	19.1	4.7	191.0
SOUTH ATLANTIC DIVISION. E1	72	20	1.3	8.8	.8	1.5	3.8	37.6	70.5	106.4	2.0	1.4	27.5
MARYLAND E5	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.7
GEORGIA	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	4.6
FLORIDA	25	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	11.2
EAST SOUTH CENTRAL DIVISION. . .	28	13	1.9	18.4	1.2	2.5	10.2	70.1	93.2	170.1	6.2	2.2	131.1
TENNESSEE	9	5	.4	2.7	.2	.5	1.6	17.6	18.8	34.2	.8	.4	9.6
ALABAMA	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSISSIPPI	10	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. . .	61	18	1.6	13.6	.9	1.7	5.7	139.8	81.4	223.3	11.0	.9	24.4
ARKANSAS	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.9
LOUISIANA	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
TEXAS	35	12	.9	8.0	.5	.9	3.3	30.4	39.0	71.0	(D)	.6	13.2
WEST REGION	82	17	1.9	17.1	1.1	2.0	8.7	81.6	85.0	163.9	5.0	2.3	61.8
MOUNTAIN DIVISION.	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	33.2
COLORADO	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION E1	67	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	23.7
CALIFORNIA	53	13	1.3	11.7	.7	1.3	5.7	38.9	54.7	92.5	(D)	1.5	23.2

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those states where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis:
1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
INDUSTRY 2879.--AGRICULTURAL CHEMICALS, N.E.C.													
United States.....	299	98	11.4	109.0	7.3	12.4	50.7	557.4	511.6	1,074.8	38.6	11.5	376.3
Northeast Region.....	34	13	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	54.5
Middle Atlantic Div....	29	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	53.3
New York.....	8	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Jersey.....	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pennsylvania.....	11	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
North Central Region.....	62	23	3.0	34.2	1.5	3.1	14.6	171.6	143.6	313.7	12.0	2.3	78.2
East North Central Div.	36	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	37.1
Ohio.....	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Indiana.....	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois.....	15	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Div.	26	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	41.1
Missouri.....	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Region.....	132	45	4.5	38.2	2.7	5.3	18.7	233.9	232.3	474.5	18.9	4.7	181.9
South Atlantic Division	55	17	1.0	7.2	.6	1.2	3.2	32.5	63.5	94.2	1.8	1.6	26.5
Maryland.....	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina.....	11	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.7
Georgia.....	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	6.6
Florida.....	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	11.2
East South Central Div.	25	12	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	131.1
Tennessee.....	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	9.6
Alabama.....	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mississippi.....	9	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Div.	52	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	24.4
Arkansas.....	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.9
Louisiana.....	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas.....	32	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	13.2
West Region.....	71	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	61.8
Mountain Division.....	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	33.2
Colorado.....	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division.....	57	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	28.6
California.....	44	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	23.2

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Nitrogenous fertilizers (SIC 2873)	Phosphatic fertilizers (SIC 2874)	Fertilizers, mixing only (SIC 2875)	Agricultural chemicals, n.e.c. (SIC 2879)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	85	89	96	87
COVERAGE RATIO ² DO	69	92	97	72
ESTABLISHMENTS, TOTAL NUMBER	76	145	625	388
WITH 1 TO 19 EMPLOYEES DO	7	30	437	275
WITH 20 TO 99 EMPLOYEES DO	39	73	176	92
WITH 100 EMPLOYEES OR MORE DO	30	42	12	21
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	9.5	14.9	11.4	12.2
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	105.7	135.1	82.5	116.5
PRODUCTION WORKERS:				
AVERAGE FOR YEAR 1,000	6.2	10.8	7.2	6.8
MARCH DO	6.3	11.3	8.1	7.0
MAY DO	6.2	11.1	9.8	7.0
AUGUST DO	6.1	10.0	5.9	6.5
NOVEMBER DO	6.0	10.6	6.4	6.6
MAN-HOURS MILLIONS	13.4	23.1	14.2	13.2
JANUARY-MARCH DO	3.5	6.1	3.6	3.4
APRIL-JUNE DO	3.5	6.0	4.5	3.5
JULY-SEPTEMBER DO	3.2	5.2	2.9	3.2
OCTOBER-DECEMBER DO	3.2	5.8	3.1	3.1
WAGES MILLION DOLLARS	65.5	91.9	41.4	53.5
COST OF MATERIALS, ETC., TOTAL DO	366.2	740.9	542.5	547.4
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED DO	214.9	615.1	412.0	414.6
COST OF REALES DO	36.3	70.7	122.5	114.3
FUELS CONSUMED DO	73.4	21.1	3.4	5.9
PURCHASED ELECTRIC ENERGY DO	33.3	23.8	4.2	5.3
CONTRACT WORK DO	2.3	10.2	.4	6.8
VALUE OF SHIPMENTS, INCLUDING REALES DO	303.4	1 178.9	799.9	1 150.8
VALUE OF REALES DO	39.6	79.4	134.6	141.6
VALUE ADDED BY MANUFACTURE DO	453.0	426.4	263.6	599.9
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL DO	104.1	145.4	135.3	181.5
FINISHED PRODUCTS DO	53.7	101.7	77.4	101.7
WORK IN PROCESS DO	8.4	15.4	11.3	25.9
MATERIALS, SUPPLIES, FUEL, ETC. DO	37.0	49.4	46.6	53.9
END OF YEAR, TOTAL DO	110.1	157.3	143.9	193.5
FINISHED PRODUCTS DO	70.3	92.5	82.3	103.6
WORK IN PROCESS DO	7.3	12.9	12.6	19.4
MATERIALS, SUPPLIES, FUEL, ETC. DO	40.6	52.4	49.0	60.4
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	53.8	78.6	17.5	39.7
NEW PLANT AND EQUIPMENT, TOTAL DO	33.4	65.8	17.2	39.5
NEW STRUCTURES AND ADDITIONS TO PLANT DO	2.8	14.0	4.4	10.9
NEW MACHINERY AND EQUIPMENT DO	30.6	51.8	12.7	28.6
USED PLANT AND EQUIPMENT DO	.4	12.9	.4	.2

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)

Item	Establish- ments	All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of shipments	Capital expendi- tures, new	End-of- year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(1,000)	(million dollars)	(1,000)	(millions)					
2873-- NITROGENOUS FERTILIZERS											
ESTABLISHMENTS, TOTAL.	76	9.5	105.7	6.2	13.4	65.5	453.0	366.2	908.4	33.4	118.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	3	(Z)	.3	(Z)	.1	.2	2.1	2.8	4.3	.1	1.7
5 TO 9 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	18	.6	7.7	.4	1.1	5.0	46.8	37.4	81.9	2.0	13.4
50 TO 99 EMPLOYEES	22	1.5	18.0	1.0	2.3	11.4	88.2	80.6	167.1	6.4	20.8
100 TO 249 EMPLOYEES	16	2.6	26.7	1.7	3.6	17.4	99.6	102.0	204.4	4.0	33.9
250 TO 499 EMPLOYEES	11	4.8	52.8	3.0	6.4	31.4	216.2	143.3	349.9	21.0	48.3
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2874-- PHOSPHATIC FERTILIZERS											
ESTABLISHMENTS, TOTAL.	145	14.9	135.1	10.8	23.1	91.9	426.4	740.9	1 178.9	65.8	157.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	9	(Z)	.1	(Z)	(Z)	.1	.3	.7	1.0	1.0	.2
5 TO 9 EMPLOYEES	6	(Z)	.4	(Z)	.1	.2	1.7	3.0	4.4	.1	.7
10 TO 19 EMPLOYEES E2	15	.2	1.8	.2	.3	1.0	4.1	10.6	14.3	1.2	1.9
20 TO 49 EMPLOYEES	39	1.3	10.4	.9	1.9	6.0	35.2	75.9	111.0	1.9	18.2
50 TO 99 EMPLOYEES	34	2.4	17.1	1.7	3.6	11.0	44.7	105.7	151.7	5.9	31.2
100 TO 249 EMPLOYEES	25	3.5	32.6	2.6	5.6	22.4	99.7	191.3	294.3	14.5	41.5
250 TO 499 EMPLOYEES	13	4.8	45.9	3.4	7.6	32.2	170.5	261.2	438.0	28.5	46.3
500 TO 999 EMPLOYEES	3	2.6	26.9	1.9	4.1	19.1	70.2	92.4	164.2	12.6	17.7
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2875-- FERTILIZERS, MIXING ONLY											
ESTABLISHMENTS, TOTAL. E1	625	11.4	82.5	7.2	14.2	41.4	263.6	542.5	799.9	17.2	143.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	196	.4	2.6	.3	.5	1.5	8.8	19.1	27.3	1.4	4.8
5 TO 9 EMPLOYEES E4	126	.8	5.1	.6	1.1	3.0	16.0	33.3	49.1	1.7	9.1
10 TO 19 EMPLOYEES E2	115	1.6	10.5	1.0	2.0	5.7	30.3	70.4	99.3	1.7	16.1
20 TO 49 EMPLOYEES	133	4.1	28.4	2.7	5.4	15.4	74.6	195.8	270.8	5.1	48.2
50 TO 99 EMPLOYEES	43	2.8	21.7	1.7	3.2	10.0	67.3	141.2	206.1	4.9	39.2
100 TO 249 EMPLOYEES	12	1.7	14.1	.9	1.8	5.9	66.5	82.8	147.3	2.5	26.4
ESTABS. COVERED BY ADMIN. RECORD ¹	184	.7	4.3	.5	.9	2.2	12.8	27.5	40.3	.8	7.1
2879-- AGRICULTURAL CHEMICALS, NEC											
ESTABLISHMENTS, TOTAL.	388	12.2	116.5	6.8	13.2	53.5	598.9	547.4	1 150.8	39.5	183.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E6	150	.3	2.1	.2	.3	.9	8.2	9.7	18.0	.6	3.2
5 TO 9 EMPLOYEES E1	64	.4	3.5	.3	.5	1.7	15.4	31.5	47.9	2.5	7.6
10 TO 19 EMPLOYEES E1	61	.9	6.6	.5	1.0	3.0	27.9	50.4	78.1	1.5	12.7
20 TO 49 EMPLOYEES	67	2.2	18.9	1.2	2.4	7.8	84.6	126.9	207.7	2.6	36.5
50 TO 99 EMPLOYEES	25	1.7	12.0	.9	1.9	5.9	73.0	83.6	153.5	2.1	29.0
100 TO 249 EMPLOYEES	14	2.7	24.5	1.6	2.9	12.5	205.8	111.9	319.1	16.0	41.7
250 TO 499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	4	4.1	48.9	2.1	4.3	21.5	184.1	133.3	326.3	14.2	52.8
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	131	.3	2.5	.2	.3	1.1	9.3	7.8	17.1	.5	2.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent

E3--30 to 39 percent

E5--50 to 59 percent

E7--70 to 79 percent

E9--90 to 99 percent

E2--20 to 29 percent

E4--40 to 49 percent

E6--60 to 69 percent

E8--80 to 89 percent

E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown on the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
2873	NITROGENOUS FERTILIZERS										
	ENTIRE INDUSTRY	76	9.5	105.7	6.2	13.4	65.5	453.0	366.2	808.4	33.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	66	7.4	80.5	4.7	10.3	48.7	339.1	284.7	610.3	19.4
28731	SYNTHETIC AMMONIA, NITRIC ACID, AMM. COMPOUNDS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	60	8.6	94.6	5.5	118.5	57.8	405.8	334.6	729.6	31.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	45	4.7	51.5	3.1	6.6	31.4	206.5	204.4	408.9	13.5
28732	UREA (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	7	.8	9.7	.6	1.3	6.8	44.3	28.0	72.3	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	3	.3	3.9	.2	.5	2.9	23.8	14.8	38.3	1.5
28733	FERTILIZER MATERIALS OF ORGANIC ORIGIN (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	8	.1	1.4	.1	.3	.8	2.8	3.6	6.5	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	8	.1	1.4	.1	.3	.8	2.8	3.6	6.5	.4
2874	PHOSPHATIC FERTILIZERS										
	ENTIRE INDUSTRY	145	14.9	135.1	10.8	23.1	91.9	426.4	740.9	1 178.9	65.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	126	12.5	111.4	9.1	19.6	75.3	335.3	616.0	964.9	55.3
28741	PHOSPHORIC ACID (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	8	1.3	13.2	.9	2.0	9.2	34.1	80.9	117.6	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28742	SUPERPHOSPHATE, PHOSPHATIC FERTILIZER MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	37	5.1	48.9	4.1	8.7	37.4	154.7	279.5	432.8	30.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	22	3.0	27.9	2.4	5.3	21.0	88.7	146.7	232.7	18.6
28743	MIXED FERTILIZERS MADE FROM MATERIALS IN PLANT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	89	8.3	72.4	5.7	12.2	45.0	235.7	378.0	624.6	29.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	71	5.3	43.5	3.7	7.9	27.4	141.4	256.1	410.1	19.7
2875	FERTILIZERS, MIXING ONLY										
	ENTIRE INDUSTRY	625	11.4	82.5	7.2	14.2	41.4	263.6	542.5	799.9	17.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	599	10.6	74.5	6.9	13.5	39.4	237.7	488.6	742.1	16.7
28752	FERTILIZERS, MIXING ONLY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	587	11.0	79.9	6.9	13.7	40.2	254.4	530.2	778.3	16.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	560	9.9	70.0	6.4	12.6	36.8	233.6	478.9	708.0	16.1
2879	AGRICULTURAL CHEMICALS, NEC										
	ENTIRE INDUSTRY	388	12.2	116.5	6.8	13.2	53.5	598.9	547.4	1 150.8	39.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	360	8.4	77.9	4.6	8.8	34.4	456.2	433.5	884.1	26.5
28791	INSECTICIDAL PREPS., GARDEN AND HEALTH USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	96	4.4	39.5	2.3	4.3	16.3	168.2	222.9	386.8	8.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	59	2.8	25.7	1.6	2.9	10.8	107.6	163.4	268.2	5.9
28792	HERBICIDAL PREPS., GARDEN AND HEALTH USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	34	3.8	41.4	2.0	4.0	19.4	265.0	170.3	441.7	17.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	18	1.6	18.7	.8	1.7	8.9	205.6	95.8	300.2	11.7
28793	AGRICULTURAL CHEMICALS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	22	.6	5.7	.4	.7	2.8	22.7	34.4	58.7	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	9	.2	1.9	.1	.1	.5	3.7	3.9	7.8	.1
28794	HOUSEHOLD INSECTICIDES AND REPELLANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	33	1.6	16.8	1.0	2.2	9.0	96.6	64.7	161.6	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	20	.4	3.9	.3	.5	1.7	32.9	27.2	58.8	.8

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. E & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
2873	Nitrogenous fertilizers.....1972.. 1967..	808.4 (NA)	647.5 (NA)	114.7 (NA)	46.2 (NA)	85 (NA)	937.3 (NA)	647.5 (NA)	289.8 (NA)	69 (NA)
2874	Phosphatic fertilizers.....1972.. 1967..	1,178.9 (NA)	973.3 (NA)	125.0 (NA)	80.6 (NA)	89 (NA)	1,052.5 (NA)	973.3 (NA)	79.2 (NA)	92 (NA)
2875	Fertilizers, mixing only.....1972.. 1967..	799.9 731.1	631.2 570.1	27.4 23.5	141.3 137.5	96 96	651.9 588.2	631.2 570.1	20.7 18.1	97 97
2879	Agricultural chemicals, n.e.c.....1972.. 1967..	1,150.8 817.0	867.0 598.5	130.8 88.4	153.0 130.1	87 87	1,196.2 834.3	867.0 598.5	329.2 235.8	72 72

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Nitrogenous fertilizers (SIC 2873)	Phosphatic fertilizers (SIC 2874)	Fertilizers, mixing only (SIC 2875)	Agricultural chemicals, n.e.c. (SIC 2879)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	808.4	1,178.9	799.9	1,150.8	(X)
2873-	Nitrogenous fertilizers.....	937.3	647.5	79.5	(2-5)	(under 2)	204.0
28731	Synthetic ammonia, nitric acid, and ammonium compounds.....	766.2	517.7	64.3	(2-5)	(under 2)	180.8
28732	Urea.....	160.4	122.1	(10-20)	-	(under 2)	(20-50)
28733	Fertilizer materials or organic origin.....	(5-10)	(5-10)	(under 2)	(under 2)	-	(under 2)
28730	Nitrogenous fertilizers, n.s.k.....	(under 2)	(under 2)	-	(under 2)	-	-
2874-	Phosphatic fertilizers.....	1,052.5	(20-50)	973.3	(under 2)	(under 2)	45.7
28741	Phosphatic acid.....	177.5	(under 2)	(100-200)	-	-	(20-50)
28742	Superphosphate and other phosphatic fertilizer materials.....	420.7	(20-50)	387.8	(under 2)	(under 2)	(under 2)
28743	Mixed fertilizers, produced from one or more materials made in same plant.....	443.0	-	(200-500)	-	-	(under 2)
28740	Phosphatic fertilizers, n.s.k.....	11.3	-	5.4	(under 2)	(under 2)	(5-10)
28752	Fertilizers, mixing only.....	651.9	(5-10)	(5-10)	631.2	(under 2)	5.4
2879-	Agricultural chemicals, n.e.c.....	1,196.2	(5-10)	(2-5)	(10-20)	867.0	307.8
28791	Insecticidal preparations (formulations) primarily for agricultural, garden, and health service use.....	387.6	-	-	(under 2)	278.2	(100-200)
28792	Herbicidal preparations (formulations) primarily for agricultural, garden, and health service use.....	432.0	(5-10)	-	-	377.9	(50-100)
28793	Agricultural chemicals, n.e.c.....	85.6	-	-	-	48.5	37.1
28794	Household insecticides and repellants, including industrial exterminants.....	184.2	-	-	-	96.9	97.3
28790	Agricultural chemicals, n.s.k.....	106.8	-	(2-5)	(10-20)	65.5	25.0
	Other product shipments by 4-digit product group.....	(X)	74.4	32.9	8.2	126.4	(X)
2048-	Prepared feeds, n.e.c.....	(X)	-	-	(2-5)	(under 2)	(X)
2812-	Alkalies and chlorine.....	(X)	(5-10)	(under 2)	-	-	(X)
2813-	Industrial gases.....	(X)	3.8	-	(under 2)	-	(X)
2819-	Industrial inorganic chemicals, n.e.c.....	(X)	25.7	28.2	-	21.5	(X)
2833-	Medicinals and botanicals.....	(X)	(under 2)	-	-	(10-20)	(X)
2834-	Pharmaceutical preparations.....	(X)	-	-	-	(2-5)	(X)
2842-	Polishes and sanitation goods.....	(X)	(under 2)	(under 2)	-	2.0	(X)
2843	Surface active agents.....	(X)	-	-	-	(2-5)	(X)
2865	Cyclic crudes and intermediates.....	(X)	(10-20)	-	-	(10-20)	(X)
2869	Industrial organic chemicals, n.e.c.....	(X)	19.7	(2-5)	(2-5)	40.7	(X)
2899	Chemical preparations, n.e.c.....	(X)	(under 2)	-	-	(10-20)	(X)
	Other product shipments.....	(X)	2.1	1.5	2.4	3.5	(X)
93000	Miscellaneous receipts.....	(X)	46.2	80.6	141.3	153.0	(X)
99989	Commission receipts.....	(X)	4.4	.7	4.5	9.5	(X)
99989	Resales.....	(X)	39.6	79.4	134.6	141.6	(X)
99980	Other miscellaneous receipts.....	(X)	2.2	.5	2.2	1.9	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
2873-	2812 Alkalies and chlorine.....	6.1	2879-	2048 Prepared feeds, n.e.c.....	(2-5)
	2813 Industrial gases.....	(5-10)		2065 Confectionery products.....	(2-5)
	2819 Industrial inorganic chemicals, n.e.c.....	21.2		2812 Alkalies and chlorine.....	(5-10)
	2822 Synthetic rubber.....	(10-20)		2819 Industrial inorganic chemicals, n.e.c.....	10.4
	2865 Cyclic crudes and intermediates.....	(10-20)		2821 Plastics materials and resins.....	(20-50)
	2869 Industrial organic chemicals, n.e.c.....	94.2		2834 Pharmaceutical preparations.....	18.0
	2892 Explosives.....	(10-20)			
	2911 Petroleum refining.....	30.1		2841 Soap and other detergents.....	14.6
	3312 Blast furnaces and steel mills.....	(5-10)		2842 Polishes and sanitation goods.....	70.2
2874-	2037 Frozen fruits and vegetables.....	(2-5)		2861 Gum and wood chemicals.....	(20-50)
	2819 Industrial inorganic chemicals, n.e.c.....	36.5		2865 Cyclic crudes and intermediates.....	(2-5)
	2869 Industrial organic chemicals, n.e.c.....	(2-5)		2869 Industrial organic chemicals, n.e.c.....	107.3
				2899 Chemical preparations, n.e.c.....	5.5

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
				1972			
2873- --	NITROGENOUS FERTILIZERS, TOTAL.....	1,000 s. tons.	(X)	(X)	937.3	(X)	(X)
28731 --	Synthetic Ammonia, Nitric Acid, and Ammonium Compounds:						
28731 00	As reported in census of manufactures.....		(X)	(X)	766.2	(X)	(X)
	As reported in Current Industrial Reports M28A ¹		(X)	(X)	775.9	(X)	(X)
28731 11	Nitric acid (100% HNO_3).....	1,000 s. tons.	27,981.3	596.1	38.2	354.9	24.5
	Ammonia (100% NH_3): ³						
28731 31	Anhydrous.....	...do....	15,169.3	9,671.0	342.1	6,124.8	221.1
28731 33	Aqua.....	...do....	37.7	33.9	1.9	(D)	(D)
	Ammonium compounds:						
	Chloride (100% NH_4Cl):						
28731 41	Gray.....	...do....	} (D)	(D)	(⁴)	(D)	(D)
28731 43	White.....	...do....					
28731 50	Nitrate (100% NH_4NO_3).....	...do....	56,863.2	4,619.3	197.8	(D)	(D)
	Fertilizer use:						
28731 51	Solution.....	...do....	62,048.9	232.4	12.0	(D)	(D)
28731 52	Solid.....	...do....	3,813.5	3,739.4	158.4	(D)	(D)
28731 53	Explosive and other uses.....	...do....	1,037.9	647.5	29.5	(D)	(D)
28731 55	Nitrogen solutions, including mixtures containing urea (100% N).....	...do....	1,581.6	1,625.3	136.8	(D)	(D)
28731 57	Sulfate (other than by-product coke oven) (100% $(\text{NH}_4)_2\text{SO}_4$).....	...do....	1,858.0	1,741.9	34.0	(D)	(D)
28731 59	Other ammonium compounds ³.....	...do....	(X)	(X)	23.7	(X)	(X)
	Urea:						
28732 15	As reported in census of manufactures.....		(X)	(X)	160.4	(X)	15.4
	As reported in Current Industrial Report M28A ⁷	1,000 s. tons.	3,424.2	(NA)	(NA)	(NA)	(NA)
28733 85	Fertilizer materials of organic origin, including activated sewage sludge processed tankage, and other natural fertilizer materials.....	...do....	(S)	(S)	(S)	(X)	(X)
28730 00	Nitrogenous fertilizers, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	(D)	(X)	(X)
28730 02	Nitrogenous fertilizers, n.s.k., for companies with less than 10 employees. (See note.).....		-	-	-	-	-

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes	Total product shipments including interplant transfers		Commercial product shipments		
				Quantity	Value (million dollars)	Quantity	Value (million dollars)	
				1967				
2873- --	NITROGENOUS FERTILIZERS, TOTAL.....	1,000 s. tons.	(NA)	(NA)	(⁸)	(NA)	(NA)	
28731 --	Synthetic Ammonia, Nitric Acid, and Ammonium Compounds:							
28731 00	As reported in census of manufactures.....	.....	(X)	(X)	827.3	(X)	(X)
	As reported in Current Industrial Reports M28A ¹.....	.....	(X)	(X)	855.9	(X)	(X)
28731 11	Nitric acid (100% HNO ₃).....	1,000 s. tons.	6,264.6	699.8	45.7	409.0	23.8	
	Ammonia (100% NH ₃) ³							
28731 31	Anhydrous.....	...do....	12,200.2	7,010.0	382.9	5,858.1	327.1	
28731 33	Aqua.....	...do....	64.9	55.1	4.1	53.4	3.9	
	Ammonium compounds:							
	Chloride (100% NH ₄ Cl):							
28731 41	Gray.....	...do....	} (D)	(D)	(⁴)	(D)	(D)	
28731 43	White.....	...do....						
	Nitrate (100% NH ₄ NO ₃).....	...do....		⁵ 6,005.1	3,361.4	173.6	(D)	(D)
	Fertilizer use:							
28731 51	Solution.....	...do....	⁶ 2,297.3	235.7	10.8	(D)	(D)	
28731 52	Solid.....	...do....	2,851.8	2,672.4	139.5	(D)	(D)	
28731 53	Explosive and other uses.....	...do....	750.4	453.3	23.3	(D)	(D)	
28731 55	Nitrogen solutions, including mixtures containing urea (100% N).....	...do....	1,517.0	1,464.6	163.7	(D)	(D)	
28731 57	Sulfate (other than by-product coke oven) (100% (NH ₄) ₂ SO ₄)..	...do....	2,079.3	1,849.3	55.4	(D)	(D)	
28731 59	Other ammonium compound ³.....	.....	(X)	(X)	⁴ 31.5	(X)	(X)
28732 15	Urea.....	1,000 s. tons.	(NA)	(NA)	(⁸)	(NA)	(NA)	
28733 85	Fertilizer materials of organic origin, including activated sewage sludge processed tankage, and other natural fertilizer materials.....	...do....	303.2	301.5	10.0	(X)	(X)	
28730 00	Nitrogenous fertilizers, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	(X)	(X)	(X)	(X)
28730 02	Nitrogenous fertilizers, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	(X)	(X)	(X)	(X)
			Unit of measure	1972		1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2874- --	PHOSPHATIC FERTILIZERS, TOTAL.....	(X)	(X)	1,052.5	(X)	(X)	(NA)
28741 --	Phosphoric Acid:							
28741 00	As reported in the census of manufactures ⁹	(X)	(X)	177.5	(X)	(X)	(NA)
	As reported in Current Industrial Reports M28A ¹	1,000 s. tons.	6,712.4	1,914.5	177.3	5,066.4	1,076.7	120.3
28741 81	From phosphorus.....	936.9	249.0	45.3	1,073.0	308.8	43.0
28741 82	Ordinary use.....	486.2	152.5	28.5	(X)	(X)	(X)
28741 83	Super uses.....	450.7	96.5	16.8	(X)	(X)	(X)
28741 85	From other sources (phosphate rock, etc.).....	5,775.5	1,665.5	132.0	3,993.4	767.9	77.3
28741 86	Ordinary use.....	5,228.3	1,504.8	114.4	(X)	(X)	(X)
28741 87	Super uses.....	547.1	160.7	17.6	(X)	(X)	(X)
28742 --	Superphosphate and Other Phosphatic Fertilizer Materials ¹⁰	(X)	(X)	420.7	(X)	(X)	542.0
	Superphosphate:							
28742 15	Normal and enriched (less than 42% P ₂ O ₅).....	1,000 s. tons.	737.0	368.9	19.6	(S)	(S)	47.7
28742 41	Triple (42% P ₂ O ₅ and over).....	...do....	1,686.8	1,490.6	111.9	(S)	(S)	149.4
28742 51	Ammonium phosphates (chemically processed nitrogen-phosphorus materials comprising liquid and solid fertilizer grades of monammonium and diammonium phosphates and their processed combinations with ammonium sulfate).....	...do....	2,367.3	2,348.3	214.7	(S)	(S)	272.8
28742 61	Other phosphatic fertilizer materials (chemically processed materials such as ammonium phosphate potash mixtures, nitrophosphates, calcium metaphosphates, sodium phosphates, and wet-base goods).....	...do....	502.7	498.5	42.2	(S)	(S)	65.7
28742 71	Defluorinated superphosphate and phosphate rock (feed grade)...	...do....	452.8	424.5	25.4	(S)	(S)	6.3
28742 00	Superphosphate and other phosphatic fertilizer materials, n.s.k.	(X)	(X)	6.9	(X)	(X)	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2874- --	PHOSPHATIC FERTILIZERS--Continued							
28743 --	Mixed Fertilizers, Produced from One or More Materials Made in Same Plant.....		(X)	(X)	443.0	(X)	(X)	426.0
	Complete mixtures--grades guaranteeing N, P ₂ O ₅ , and K ₂ O (excluding ammonium phosphate potash mixtures chemically processed in same establishment):							
28743 13	Shipped in dry form.....	1,000 s. tons.	4,912.0	4,831.4	275.7	6,825.1	6,861.4	371.6
28743 17	Shipped in liquid form.....	...do....	79.8	78.8	5.0	100.9	116.3	5.9
	Incomplete mixtures, including dry and liquid forms:							
28743 25	Grades guaranteeing N and P ₂ O ₅ only, including ammoniated superphosphates.....	...do....	1,187.4	1,146.7	68.6	261.8	209.0	14.7
28743 31	Grades guaranteeing P ₂ O ₅ and K ₂ O only.....	...do....	1,086.6	1,124.3	63.2	485.1	466.6	22.6
28743 51	Grades guaranteeing N and K ₂ O only.....	...do....	13.6	12.9	.8	41.5	40.6	2.1
28743 78	Grades guaranteeing N, P ₂ O ₅ , or K ₂ O only.....	...do....	353.0	350.8	9.5	149.6	148.4	6.1
28743 00	Mixed fertilizers, n.s.k.....		(X)	(X)	20.2	(X)	(X)	3.0
28740 00	Phosphatic fertilizers, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	11.3	(X)	(X)	(¹¹)
28740 02	Phosphatic fertilizers, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	-	(X)	(X)	-
2875- --	FERTILIZERS, MIXING ONLY, TOTAL.....		(X)	(X)	651.9	(X)	(X)	588.2
28752 --	Fertilizers, Mixing Only (see Code 28743).....		(X)	(X)	651.9	(X)	(X)	588.2
	Complete mixtures (grades guaranteeing N, P ₂ O ₅ , and K ₂ O):							
28752 13	Shipped in dry form.....	1,000 s. tons.	6,461.7	6,346.5	431.7	7,116.1	7,222.9	392.0
28752 17	Shipped in liquid form.....	...do....	654.5	566.2	40.8	642.1	661.0	32.3
	Incomplete mixtures, including dry and liquid forms:							
28752 25	Grades guaranteeing N and P ₂ O ₅ only, including ammoniated superphosphates.....	...do....	330.9	330.8	19.8	179.2	174.3	13.1
28752 31	Grades guaranteeing P ₂ O ₅ and K ₂ O only.....	...do....	219.5	220.9	12.3	265.1	261.7	13.5
28752 51	Grades guaranteeing N and K ₂ O only.....	...do....	223.6	226.4	12.2	153.5	154.8	8.8
28752 78	Grades guaranteeing N, P ₂ O ₅ , or K ₂ O only.....	...do....	337.4	330.3	17.7	358.1	353.2	19.4
28752 00	Fertilizers, mixing only, n.e.c., n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	74.2	(X)	(X)	92.3
28752 02	Fertilizers, mixing only, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	43.2	(X)	(X)	16.8
2879- --	AGRICULTURAL CHEMICALS, N.E.C., TOTAL.....		(X)	(X)	1,196.2	(X)	(X)	964.2
28791 --	Insecticidal Preparations (Formulations) Primarily for Agricultural, Garden, and Health Service Use ¹²		(X)	(X)	387.6	(X)	(X)	348.0
28791 10	Arsenic compounds (calcium and lead arsenate).....		(X)	(X)	1.2	(X)	(X)	1.4
28791 13	Arsenical insecticides, including Paris green and other copper arsenicals or mixtures containing arsenicals but excluding weed killers.....	Million lb	15.3	16.4	2.2	(NA)	(NA)	3.8
28791 32	Benzene hexachloride and/or lindane preparations with DDT.....	...do....	4.7	4.9	1.0	(NA)	(NA)	2.2
	DDT-containing preparations:							
28791 32	Preparations containing DDT as the active ingredient.....	...do....	129.7	126.9	29.1	(NA)	154.7	23.6
28791 35	Preparations of DDT and other toxicants.....	...do....				(NA)	70.0	13.5
28791 39	Chlorinated hydrocarbon pesticidal preparations other than those containing hexachloride or DDT.....	...do....	200.4	197.7	55.6	(NA)	228.2	70.7
	Organic phosphate-containing preparations							
28791 43	Preparations containing parathion as the active ingredient....	...do....	25.7	26.5	12.1	(NA)	37.3	12.1
28791 45	Preparations containing methyl parathion as the active ingredient.....	...do....	52.5	51.0	26.1	(NA)	49.3	23.7
28791 47	Preparations containing other organic phosphates as the active ingredient.....	...do....	225.7	214.8	110.5	(NA)	152.4	64.1
28791 61	Botanical preparations and/or concentrates for agricultural use.	...do....	2.7	2.5	1.0	(NA)	30.6	7.3
28791 49	Other agricultural insecticidal preparation and/or concentrates, including petroleum oil sprays and emulsions without other toxicants, excluding botanicals.....	...do....	(S)	(S)	148.8	(NA)	410.2	125.6

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2879- --	AGRICULTURAL CHEMICALS, N.E.C.--Continued							
28792 --	Herbicidal Preparations (Formulations) Primarily for Agricultural, Garden, and Health Service Use ¹²		(X)	(X)	432.0	(X)	(X)	326.1
28792 81	Sodium arsenite.....	Million lb	9.7	9.3	1.3	(NA)	11.6	1.5
28792 82	Sodium chlorate preparations.....	..do....	(S)	(S)	1.6	(NA)	18.8	3.6
28792 83	2,4-D, (2,4 dichlorophenoxyacetic acid) and derivatives.....	..do....	41.9	48.0	15.4	(NA)	(NA)	46.4
28792 84	2,4,5-trichlorophenoxyacetic acid and derivatives.....	..do....	14.8	14.7	8.1	(NA)	(NA)	24.7
28792 85	Defoliants, except sodium chlorate preparations.....	..do....	(D)	(D)	(D)	(NA)	(NA)	5.0
28792 86	Desiccants, including arsenic acid.....	..do....	14.3	13.8	2.4	(NA)	7.1	1.4
28792 87	Plant growth regulators.....	..do....	(S)	(S)	1.6	(NA)	(NA)	2.8
28792 88	Carbamates, including CIPC, EPTC, CDAA, etc.....	..do....	(D)	(D)	(D)	(NA)	(NA)	22.8
28792 89	Other herbicidal preparations, including algaecides, etc.....	..do....	(S)	(S)	347.7	(NA)	(NA)	217.9
28793 --	Agricultural Chemicals, N.E.C. ¹²		(X)	(X)	85.6	(X)	(X)	78.6
28793 15	Fungicides: Sulfur-containing preparations, including wettable sulfur, sulfur dust and lime sulfur.....	Million lb	147.6	157.7	8.2	(NA)	236.9	10.7
28793 65	Seed treatment compounds (insecticides, fungicides, and inoculants).....	..do....	16.5	16.4	5.5	(NA)	30.0	10.5
28793 67	Copper-containing dry preparations, including dry Bordeaux mixtures but excluding Paris green and copper sulfate.....	..do....	16.9	19.4	6.8	(NA)	23.7	6.3
28793 69	Other fungicidal preparations for agricultural use.....	..do....	116.1	119.6	34.2	(NA)	81.1	31.8
28793 71	Soil fumigants.....	..do....	59.3	53.6	20.0	(NA)	60.1	13.5
28793 98	Other agricultural chemicals, n.e.c., such as disinfectants, animal dips, and soil conditioners.....	..do....	(S)	(S)	10.9	(NA)	(NA)	5.8
28794 --	Household Insecticides and Repellants, Including Industrial Exterminats.....		(X)	(X)	184.2	(NA)	(NA)	129.9
28794 12	Insecticides for crawling insects, excluding fumigants: Aerosols.....		(X)	(X)	29.6	(X)	(X)	23.7
28794 15	Nonaerosols.....		(X)	(X)	31.2	(X)	(X)	21.0
28794 21	Insecticides for flying insects, excluding fumigants: Aerosols.....		(X)	(X)	40.3	(X)	(X)	35.5
28794 24	Nonaerosols.....		(X)	(X)	20.0	(X)	(X)	18.3
28794 35	Repellants and attractants for insects, birds, fish and other animals.....		(X)	(X)	13.2	(X)	(X)	11.0
28794 71	Rodenticides.....		(X)	(X)	42.8	(X)	(X)	9.0
28794 89	Fumigants, other than soil fumigants, including space.....		(X)	(X)	7.1	(X)	(X)	2.4
28794 00	Household insecticides and repellants, n.s.k.....		(X)	(X)	7.1	(X)	(X)	9.1
28790 00	Agricultural chemicals, n.s.k., for companies with 10 employees or more. (See note.) ¹²		(X)	(X)	89.7	(X)	(X)	75.3
28790 02	Agricultural chemicals, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	17.1	(X)	(X)	6.2

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Source: Current Industrial Reports series M28A, Inorganic Chemicals. The 1967 data include all revised figures published in the Current Industrial Reports series.

²Includes unspecified amounts of nitric acid produced but not withdrawn from the system.

³Excludes data for byproduct ammonia liquor and ammonium sulfate published by the Bureau of Mines. The quantities of byproduct ammonia liquor (NH₃ content) produced were 13,000 short tons in 1972 and 14,471 short tons in 1967. The quantities of byproduct ammonium sulfate produced were 561,000 short tons in 1972 and 745,000 short tons in 1967.

⁴Codes 28731 41 and 28731 43 combined with code 28731 59.

⁵Represents total amount of original solution produced, including amounts used for fertilizer, explosive, and other uses and amounts consumed in manufacturing other products such as nitrogen solutions (product code 28731 55).

⁶Excludes amounts converted to solid ammonium nitrate.

⁷Collected by U.S. International Trade Commission and published in U.S. International Trade Commission's monthly report S.O.C. series C. Annual data on urea produced for use in feed compounds, liquid fertilizers, solid fertilizers, and plastics are published in the U.S. International Trade Commission's annual report, "Synthetic Organic Chemicals, U.S. Production and Sales."

⁸Comparable data for 1967 are not available because of revisions to the 1972 Standard Industrial Classification Manual.

⁹In 1967, phosphoric acid was part of product class 28194. Separate data as reported in the census of manufactures are not available.

¹⁰For product codes 28742 15, 28742 41, 28742 61, quantity data showing production, shipments plant consumption, and stocks are published in Current Industrial Reports series M28B, Inorganic Fertilizer Materials and Related Products.

¹¹Due to 1972 Standard Industrial Classification revisions, this code is not comparable to the 1967 SIC product code 28710 00 which totaled \$4.9 million.

¹²1967 and 1972 data for the product class "n.s.k." codes 28791, 28792, and 28793 are included with the industry "n.s.k." code 28790 00.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SYNTHETIC AMMONIA, NITRIC ACID, AND AMMONIUM COMPOUNDS (28731)			UREA (28732)--Continued		
United States.....	766.2	827.3	West Region.....	32.1	(NA)
Northeast Region.....	47.0	37.0	Mountain Division.....	BB	(NA)
Middle Atlantic Division.....	FF	FF	Wyoming.....	BB	(NA)
New York.....	14.6	CC	Pacific Division.....	FF	(NA)
New Jersey.....	20.2	EE	Oregon.....	BB	(NA)
Pennsylvania.....	EE	14.2	California.....	CC	(NA)
			Alaska.....	EE	(NA)
North Central Region.....	203.9	258.2	PHOSPHORIC ACID (28741)		
East North Central Division.....	59.2	106.3	United States.....	177.5	(NA)
Ohio.....	25.4	48.7	Northeast Region.....	6.9	(NA)
Indiana.....	CC	FF	Middle Atlantic Division.....	6.9	(NA)
Illinois.....	20.0	26.8	New Jersey.....	CC	(NA)
Michigan.....	CC	CC	Pennsylvania.....	AA	(NA)
West North Central Division.....	144.7	151.9			
Iowa.....	46.0	32.5	North Central Region.....	21.9	(NA)
Missouri.....	FF	23.6	East North Central Division.....	EE	(NA)
Nebraska.....	32.2	32.5	Indiana.....	BB	(NA)
Kansas.....	FF	FF	Michigan.....	CC	(NA)
South Region.....	419.2	439.0	West North Central Division.....	CC	(NA)
South Atlantic Division.....	104.8	117.3	Iowa.....	BB	(NA)
Delaware.....	CC	CC	Kansas.....	CC	(NA)
Virginia.....	FF	FF			
West Virginia.....	11.2	13.3	South Region.....	126.0	(NA)
North Carolina.....	EE	-	South Atlantic Division.....	GG	(NA)
Georgia.....	FF	FF	North Carolina.....	EE	(NA)
Florida.....	19.5	23.7	South Carolina.....	BB	(NA)
East South Central Division.....	77.7	110.7	Florida.....	GG	(NA)
Kentucky.....	BB	CC	West South Central Division.....	FF	(NA)
Tennessee.....	FF	FF	Louisiana.....	FF	(NA)
Alabama.....	CC	EE	Texas.....	AA	(NA)
Mississippi.....	FF	GG			
West South Central Division.....	236.6	211.0	West Region.....	22.8	(NA)
Arkansas.....	FF	FF	Mountain Division.....	10.5	(NA)
Louisiana.....	101.3	GG	Idaho.....	CC	(NA)
Oklahoma.....	CC	AA	Utah.....	BB	(NA)
Texas.....	88.0	95.5	Pacific Division.....	12.3	(NA)
West Region.....	96.1	93.1	California.....	12.3	(NA)
Mountain Division.....	20.6	13.0			
Idaho.....	AA	-	SUPERPHOSPHATE AND OTHER PHOSPHATIC FERTILIZER MATERIALS (28742)		
Wyoming.....	CC	-	United States.....	420.7	542.0
Utah.....	CC	-	Northeast Region.....	BB	3.5
Nevada.....	CC	BB	Middle Atlantic Division.....	BB	AA
Pacific Division.....	75.5	80.0	Pennsylvania.....	AA	(NA)
Washington.....	EE	EE			
Oregon.....	BB	BB	North Central Region.....	EE	45.6
California.....	51.7	65.0	East North Central Division.....	EE	20.8
Alaska.....	CC	-	Ohio.....	AA	3.1
UREA (28732)			Illinois.....	9.9	15.2
United States.....	160.4	(NA)	West North Central Division.....	AA	24.8
Northeast Region.....	BB	(NA)	Iowa.....	AA	CC
Middle Atlantic Division.....	BB	(NA)			
New York.....	BB	(NA)	South Region.....	351.0	439.8
North Central Region.....	FF	(NA)	South Atlantic Division.....	264.3	319.7
East North Central Division.....	EE	(NA)	North Carolina.....	27.4	2.4
Ohio.....	EE	(NA)	Georgia.....	6.5	3.9
West North Central Division.....	8.9	(NA)	Florida.....	227.7	299.5
Iowa.....	AA	(NA)	East South Central Division.....	11.6	27.6
Missouri.....	CC	(NA)	Kentucky.....	AA	AA
Nebraska.....	AA	(NA)	Tennessee.....	AA	1.1
South Region.....	99.9	(NA)	Alabama.....	CC	FF
South Atlantic Division.....	FF	(NA)	West South Central Division.....	75.0	92.6
Delaware.....	CC	(NA)	Arkansas.....	CC	(NA)
West Virginia.....	CC	(NA)	Louisiana.....	FF	FF
North Carolina.....	CC	(NA)	Texas.....	20.3	59.4
Georgia.....	BB	(NA)			
Florida.....	AA	(NA)	West Region.....	55.1	53.1
East South Central Division.....	FF	(NA)	Mountain Division.....	35.8	31.8
Tennessee.....	CC	(NA)	Montana.....	AA	AA
Mississippi.....	FF	(NA)	Idaho.....	FF	25.7
West South Central Division.....	34.2	(NA)	Utah.....	CC	BB
Louisiana.....	21.4	(NA)	Pacific Division.....	19.3	21.3
Oklahoma.....	CC	(NA)	Washington.....	BB	BB
Texas.....	CC	(NA)	California.....	EE	EE

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
MIXED FERTILIZERS MADE FROM MATERIALS IN PLANT (28743)			INSECTICIDAL PREPARATIONS FOR GARDEN AND HEALTH USE (28791)—Continued		
United States.....	443.0	435.9	South Region--Continued		
Northeast Region.....	11.5	18.9	West South Central Division.....	57.5	(NA)
Middle Atlantic Division.....	EE	EE	Arkansas.....	BB	(NA)
New York.....	BB	BB	Louisiana.....	CC	(NA)
Pennsylvania.....	CC	8.1	Texas.....	47.3	(NA)
North Central Region.....	85.0	161.9	West Region.....	78.4	(NA)
East North Central Division.....	34.5	124.7	Mountain Division.....	FF	(NA)
Ohio.....	9.6	40.4	Colorado.....	FF	(NA)
Indiana.....	CC	22.4	Nevada.....	BB	(NA)
Illinois.....	13.4	37.1	Pacific Division.....	FF	(NA)
Michigan.....	CC	15.2	Oregon.....	AA	(NA)
West North Central Division.....	50.5	37.2	California.....	FF	(NA)
Minnesota.....	BB	4.0			
Iowa.....	FF	16.2	HERBICIDAL PREPARATIONS FOR GARDEN AND HEALTH USE (28792)		
Missouri.....	EE	EE	United States.....	432.0	(NA)
Nebraska.....	AA	AA	Northeast Region.....	FF	(NA)
South Region.....	311.5	236.5	Middle Atlantic Division.....	FF	(NA)
South Atlantic Division.....	135.7	129.3	New York.....	AA	(NA)
Maryland.....	EE	9.9	New Jersey.....	CC	(NA)
Virginia.....	19.3	23.7	Pennsylvania.....	EE	(NA)
North Carolina.....	EE	30.5			
South Carolina.....	14.9	18.5	North Central Region.....	180.2	(NA)
Georgia.....	28.6	33.5	East North Central Division.....	GG	(NA)
Florida.....	50.3	13.2	Ohio.....	AA	(NA)
East South Central Division.....	84.8	76.9	Indiana.....	GG	(NA)
Kentucky.....	1.9	AA	Illinois.....	1.4	(NA)
Tennessee.....	CC	21.7	Michigan.....	FF	(NA)
Alabama.....	18.3	EE	West North Central Division.....	GG	(NA)
Mississippi.....	GG	FF	Minnesota.....	BB	(NA)
West South Central Division.....	91.0	30.2	Iowa.....	EE	(NA)
Louisiana.....	FF	5.5	Missouri.....	16.3	(NA)
Texas.....	GG	18.0	Nebraska.....	EE	(NA)
West Region.....	35.1	18.7	Kansas.....	CC	(NA)
Mountain Division.....	EE	CC	South Region.....	206.0	(NA)
Idaho.....	BB	BB	South Atlantic Division.....	11.4	(NA)
Arizona.....	CC	(NA)	North Carolina.....	AA	(NA)
Pacific Division.....	FF	EE	Florida.....	CC	(NA)
California.....	FF	EE	East South Central Division.....	GG	(NA)
			Tennessee.....	BB	(NA)
INSECTICIDAL PREPARATIONS FOR GARDEN AND HEALTH USE (28791)			Alabama.....	GG	(NA)
United States.....	387.6	(NA)	Mississippi.....	BB	(NA)
Northeast Region.....	27.5	(NA)	West South Central Division.....	GG	(NA)
New England Division.....	AA	(NA)	Arkansas.....	BB	(NA)
Massachusetts.....	AA	(NA)	Louisiana.....	GG	(NA)
Middle Atlantic Division.....	FF	(NA)	Texas.....	15.6	(NA)
New York.....	CC	(NA)	West Region.....	EE	(NA)
New Jersey.....	8.0	(NA)	Pacific Division.....	EE	(NA)
Pennsylvania.....	CC	(NA)	Oregon.....	BB	(NA)
North Central Region.....	101.7	(NA)	California.....	EE	(NA)
East North Central Division.....	45.0	(NA)			
Ohio.....	BB	(NA)	AGRICULTURAL CHEMICALS, N.E.C. (28793)		
Indiana.....	EE	(NA)	United States.....	85.6	(NA)
Illinois.....	12.3	(NA)	Northeast Region.....	17.9	(NA)
Michigan.....	EE	(NA)	New England Division.....	BB	(NA)
West North Central Division.....	56.7	(NA)	Massachusetts.....	BB	(NA)
Iowa.....	CC	(NA)	Middle Atlantic Division.....	EE	(NA)
Missouri.....	FF	(NA)	New York.....	BB	(NA)
Nebraska.....	BB	(NA)	New Jersey.....	1.4	(NA)
South Region.....	180.1	(NA)	Pennsylvania.....	EE	(NA)
South Atlantic Division.....	71.8	(NA)	North Central Region.....	29.4	(NA)
Maryland.....	BB	(NA)	East North Central Division.....	19.5	(NA)
West Virginia.....	EE	(NA)	Illinois.....	BB	(NA)
North Carolina.....	BB	(NA)	Michigan.....	EE	(NA)
South Carolina.....	3.2	(NA)	West North Central Division.....	9.9	(NA)
Georgia.....	39.1	(NA)	Iowa.....	BB	(NA)
Florida.....	8.0	(NA)	Missouri.....	CC	(NA)
East South Central Division.....	50.7	(NA)	Nebraska.....	AA	(NA)
Tennessee.....	EE	(NA)	Kansas.....	AA	(NA)
Alabama.....	GG	(NA)			
Mississippi.....	14.5	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
AGRICULTURAL CHEMICALS, N.E.C. (28793)--Continued			HOUSEHOLD INSECTICIDES AND REPELLANTS (28794)--Continued		
South Region.....	25.7	(NA)	North Central Region.....	88.6	69.5
South Atlantic Division.....	8.1	(NA)	East North Central Division.....	69.7	49.1
North Carolina.....	1.7	(NA)	Ohio.....	EE	CC
Georgia.....	4.5	(NA)	Indiana.....	AA	(NA)
Florida.....	1.6	(NA)	Illinois.....	EE	CC
East South Central Division.....	4.5	(NA)	Michigan.....	BB	AA
Mississippi.....	BB	(NA)	Wisconsin.....	FF	FF
West South Central Division.....	13.1	(NA)	West North Central Division.....	18.9	20.4
Arkansas.....	BB	(NA)	Minnesota.....	CC	CC
Texas.....	EE	(NA)	Missouri.....	CC	EE
West Region.....	12.7	(NA)	South Region.....	33.0	20.0
Mountain Division.....	AA	(NA)	South Atlantic Division.....	14.4	8.8
Colorado.....	AA	(NA)	Virginia.....	AA	AA
Pacific Division.....	EE	(NA)	Georgia.....	8.6	3.5
California.....	EE	(NA)	Florida.....	BB	1.8
HOUSEHOLD INSECTICIDES AND REPELLANTS (28794)			East South Central Division.....	CC	CC
United States.....	184.2	129.9	Tennessee.....	CC	CC
Northeast Region.....	51.0	29.9	West South Central Division.....	EE	CC
New England Division.....	3.9	3.0	Louisiana.....	CC	CC
Massachusetts.....	BB	BB	Texas.....	3.4	(NA)
Middle Atlantic Division.....	47.1	27.0	West Region.....	11.6	10.4
New York.....	5.0	CC	Mountain Division.....	AA	(NA)
New Jersey.....	40.4	19.9	Colorado.....	AA	(NA)
Pennsylvania.....	1.7	AA	Pacific Division.....	EE	CC
			California.....	EE	9.5

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9

CC.....\$5.0 to \$9.9

FF.....\$20.0 to \$49.9

BB.....\$2.0 to \$4.9

EE.....\$10.0 to \$19.9

GG.....\$50.0 and over

- Represents zero. (NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2873	Nitrogenous fertilizers.....	937.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
28731	Synthetic ammonia, nitric acid, ammonium compounds.....	766.2	736.2	726.6	719.9	765.8	827.3	587.8	365.0
28732	Urea.....	160.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
28733	Fertilizers materials of organic origin.....	(S)	(NA)	(NA)	(NA)	(NA)	10.0	11.8	7.4
28730	Nitrogenous fertilizers, n.s.k.....	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2874	Phosphatic fertilizers.....	1,052.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
28741	Phosphoric acid.....	177.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
28742	Super phosphate and other phosphatic fertilizer materials..	420.7	452.3	471.6	421.3	522.9	542.0	321.5	² 153.6
28743	Mixed fertilizers produced from one or more materials.....	443.0	(NA)	(NA)	(NA)	(NA)	426.0	394.6	² 716.9
28740	Phosphatic fertilizers, n.s.k.....	11.3	(7.5)	(8.0)	(3.2)	(13.4)	4.9	-	5.4
28752	Fertilizers, mixing only.....	651.9	530.5	535.9	576.4	616.7	588.2	492.7	(³)
2879	Agricultural chemicals, n.e.c.....	1,196.2	1,080.4	1,041.3	1,090.8	1,084.3	964.2	599.5	433.5
28791	Insecticidal preparations, garden and health use.....	387.6	934.7	907.8	951.4	945.6	834.3	488.7	347.6
28792	Herbicidal preparations, garden and health use.....	432.0							
28793	Agricultural chemicals, n.e.c.....	85.6							
28790	Agricultural chemicals, n.s.k.....	184.2	145.7	133.5	139.4	138.7	129.9	110.8	85.9
28794	Household insecticides and repellants.....	106.8							

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the data did not meet publication standards.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²For 1958, data for ammonium phosphates and other chemically processed phosphatic fertilizer materials were included in product class 28743.

³Data for product-class 28752 combined with product class 28743 for 1958.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	1972					
		Basis	Unit of measure	Total consumption of materials (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
					Quantity	Delivered cost	
	INDUSTRY 2873.--NITROGENOUS FERTILIZERS						
	Materials, containers, and supplies, total.....			(X)	(X)	214.9	(X)
	Inorganic chemicals:						
	Acids, except spent acids:						
287311	Nitric acid.....	100% HNO ₃	1,000 s. tons.	4,260.7	(D)	(D)	(D)
287410	Phosphoric acid.....	100% P ₂ O ₅	...do....	190.9	(D)	(D)	(D)
281931	Sulfuric acid.....	100% H ₂ SO ₄	...do....	417.7	29.5	.7	388.2
287312	Ammonia, synthetic, anhydrous.....	100% NH ₃	...do....	4,606.6	960.4	31.0	3,646.2
	Used as raw material:						
131152	Natural gas.....		Mil. cu. ft.	(X)	212,443	72.6	(X)
355911	Parts and attachments for chemical industries machinery and equipment.....			(X)	(X)	9.5	(X)
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	(X)	85.8	(X)
976000	Materials, containers, and supplies, n.s.k.....			(X)	(X)	4.4	(X)
	INDUSTRY 2874.--PHOSPHATIC FERTILIZERS						
	Materials, containers, and supplies, total.....			(X)	(X)	615.1	(X)
	Nitrogenous materials:						
287312	Ammonia, synthetic, anhydrous.....	100% NH ₂	1,000 s.tons	1,819.3	1,141.4	43.5	677.9
287313	Ammoniating, or nitrogen solution including mixtures containing urea.....	100% N	...do....	(X)	204.4	10.9	(X)
287314	Ammonium nitrate.....	100% NH ₄ NO ₃	...do....	(X)	49.2	2.4	(X)
281975	Sodium nitrate.....	100% NaNO ₃	...do....	(X)	(D)	(D)	(X)
287315	Ammonium sulfate.....	100% (NH ₄) ₂ SO ₄	...do....	(X)	290.4	11.0	(X)
287321	Urea and calurea.....	100% N	...do....	(X)	15.9	.9	(X)
287316	Other chemicals nitrogenous materials, including potassium nitrate, calcium cyanamide, ammonium nitrate and limestone mixtures.....		...do....	(X)	37.5	2.2	(X)
200011	Organic ammoniates.....		...do....	(X)	4.6	.6	(X)
	Phosphatic materials:						
287421	Normal superphosphate (less than 40% P ₂ O ₅).....	100% P ₂ O ₅	...do....	838.3	339.7	7.7	498.6
287424	Concentrated superphosphate (40% P ₂ O ₅ and over).....	100% P ₂ O ₅	...do....	419.1	234.3	14.8	184.8
287426	Other phosphatic materials, including wet base goods, ammonium phosphates, etc.....	100% P ₂ O ₅	...do....	118.2	79.6	6.2	38.6
	Potassic materials:						
147401	Muriate of potash.....	K ₂ O 60-62%	...do....	(X)	1,336.7	49.2	(X)
147402	Other potash bearing materials.....		...do....	(X)	117.8	5.7	(X)
999821	Insert fillers, secondary plant food, and soil conditioners including sand, limestone, peat, nut hulls, citrus meals.....		...do....	(X)	310.6	3.4	(X)
	Sulfuric acid:						
281931	Sulfuric acid, except spent.....	100% H ₂ SO ₄	...do....	14,551.2	940.9	13.7	13,610.3
281933	Spent sulfuric acid.....	100% H ₂ SO ₄	...do....	869.5	307.8	4.0	561.7
147501	Phosphate rock.....	(X)	1,000 1.tons	(X)	1,245.4	139.5	(X)
287410	Phosphoric acid.....	100% P ₂ O ₅	1,000 1.tons	4,331.2	667.6	53.3	3,663.6
147701	Sulfur.....		1,000 1.tons	(X)	4,806.2	114.8	(X)
	Containers:						
239300	Textile.....			(X)	(X)	(D)	(X)
264302	Bags, except textile (including shipping sacks).....			(X)	(X)	6.8	(X)
	All other materials and components:						
970099	Parts, containers, and supplies consumed.....			(X)	(X)	105.2	(X)
976000	Materials, containers, and supplies, n.s.k.....			(X)	(X)	18.9	(X)

See footnote at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	1972		1967	
				Quantity	Delivered cost	Quantity	Delivered cost
					(million dollars)		(million dollars)
	INDUSTRY 2875.--FERTILIZERS, MIXING ONLY						
	Materials, containers, and supplies, total.....			(X)	412.0	(X)	417.4
	Nitrogenous materials:						
287312	Ammonia, synthetic, anhydrous.....	100% NH ₃ ...	1,000 s.tons	135.3	6.5	152.7	11.6
287313	Ammoniating, or nitrogen solution including mixtures containing urea.....	100% N.....	...do.....	344.8	23.7	(S)	29.2
287314	Ammonium nitrate.....	100% NH ₄ NO ₃	...do.....	326.6	17.0	173.6	11.5
281975	Sodium nitrate.....	100% NaNO ₃	...do.....	14.8	.8	(S)	(¹)
287315	Ammonium sulfate.....	100% (NH ₄) ₂ SO ₄.....	...do.....	436.8	11.3	321.5	11.5
287321	Urea and calurea.....	100% N.....	...do.....	117.8	10.9	92.7	9.5
287316	Other chemical nitrogenous materials, including potassium nitrate, calcium cyanamide, ammonium nitrate and limestone mixtures.....		...do.....	98.8	8.1	(S)	5.3
200011	Organic ammoniates.....		...do.....	96.7	5.6	143.1	6.1
	Phosphatic materials:						
287421	Normal superphosphate (less than 40% P ₂ O ₅).....	100% P ₂ O ₅..	...do.....	(S)	23.0	(S)	34.1
287424	Concentrated superphosphate (40% P ₂ O ₅ and over).....	100% P ₂ O ₅..	...do.....	298.5	31.3	(S)	29.4
287426	Other phosphatic materials, including wet base goods, ammonium phosphates, etc.....	100% P ₂ O ₅..	...do.....	339.6	32.4	(S)	24.8
	Potassic materials:						
147401	Muriate of potash.....	K ₂ O 60-62%.	...do.....	1,368.4	56.8	1,281.2	47.8
147402	Other potash bearing materials.....		...do.....	228.3	11.6	201.0	8.7
999821	Insert fillers, secondary plant food, and soil conditioners including sand, limestone, peat, nut hulls, citrus meals.....		...do.....	920.0	12.6	807.8	8.7
281931	Sulfuric acid, except spent acid.....	100% H ₂ SO ₄	...do.....	123.9	2.4	174.1	4.0
147501	Phosphate rock.....		1,000 l.tons	56.8	.9	(S)	(¹)
287410	Phosphoric acid.....	100% P ₂ O ₅ ..	1,000 s.tons	293.0	25.0	144.9	15.8
	Containers:						
239300	Textile.....						
264302	Bags, except textile including shipping sacks, multiwall bags, and polyethylene liners.....			(X)	13.8	(X)	13.0
970099	All other materials and components, parts, containers, and supplies consumed.....			(X)	46.7	(X)	¹ 58.3
976000	Materials, containers, supplies, n.s.k. ²			(X)	71.6	(X)	88.1
	INDUSTRY 2879.--AGRICULTURAL CHEMICALS, N.E.C. (Materials data are not available for this industry)						

(X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Code 281975 and code 147501 combined with code 970099 for 1967.

²This item represents the total cost of materials for establishments that did not report detailed materials data. It also includes estimates for companies that were not mailed report forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 2875.--FERTILIZERS, MIXING ONLY					
	Purchased fuels and electric energy.....		(X)	5.8	(X)	5.5
	Purchased fuels, total.....		(X)	2.7	(X)	2.6
121005	Coal.....	1,000 s. tons....	-	-	-	-
331212	Coke.....	..do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	121.1	.5	82.6	.4
291141	Distillate.....	...do.....	100.8	.4	71.7	.1
291151	Residual.....	...do.....	20.4	.1	10.8	.4
131300	Natural gas.....	Billion ft ³	3.2	1.4	2.5	.8
960011	Other fuels.....		(X)	.3	(X)	.4
975000	Fuels, n.s.k.....		(X)	.5	(X)	.9
960012	Purchased electric energy.....	Million kWh.....	177.3	3.1	140.9	2.9
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.9	-	2.1	-
	INDUSTRY 2879.--AGRICULTURAL CHEMICALS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	9.3	(X)	(NA)
	Purchased fuels, total.....		(X)	4.6	(X)	(NA)
121005	Coal.....	1,000 s. tons....	60.8	.6	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	115.4	.5	(NA)	(NA)
291141	Distillate.....	...do.....	53.2	.3	(NA)	(NA)
291151	Residual.....	...do.....	62.2	.3	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	6.2	2.4	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.0	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	493.1	4.7	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.0	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.

Miscellaneous Chemical Products

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EXPLANATORY TEXT

MISCELLANEOUS CHEMICAL PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 2891—Adhesives and Sealants
- 2892—Explosives
- 2893—Printing Ink
- 2895—Carbon Black
- 2899—Chemicals and Chemical Preparations, N.E.C.*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2891.—ADHESIVES AND SEALANTS

This industry comprises establishments primarily engaged in manufacturing industrial and household adhesives, glues, calking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastics materials, purchased or produced in the same establishment. Establishments primarily engaged in manufacturing gelatin and sizes are classified in industry 2899, and vegetable gelatin or agar-agar in industry 2833. For a detailed list of products of industry 2891, refer to table 6A, product codes 28913 11 to 28915 58.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number

from the previous classification, but were significantly changed in comparison with data classified by the previous system. The industry as now constituted includes synthetic resin adhesives from resins manufactured in the same establishment (formerly in industry 2821), calking compounds and sealants (formerly in industry 2851), rubber cement (formerly in industry 3069), and sealants, n.e.c. (formerly in industry 2899), and excludes gelatin and sizes (now in industry 2899).

The effect of the revisions on the data are summarized in table 1C, "Composition of the new (1972) SIC industries based on old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 46 establishments with 1.7 thousand employees (formerly included in industry 2821, Plastics Materials and Resins); 37 establishments with 2.6 thousand employees (formerly included in industry 2851, Paints and Allied Products); 37 establishments with 1.6 thousand employees (formerly included in industry 3069, Fabricated Rubber Products, N.E.C.) are now reclassified in industry 2891, Adhesives and Sealants. In addition, 16 establishments accounting for 1.9 thousand employees (formerly classified in industry 2891, Adhesives and Gelatin), were reclassified in industry 2899, Chemical Preparations, N.E.C..

Value of shipments and other receipts of the Adhesives and Sealants Industry in 1972 totaled \$928.0 million. This included shipments of adhesives and sealants (primary products) valued at \$782.7 million, shipments of other products (secondary products) valued at \$98.5 million, and miscellaneous receipts (mainly resales) of \$46.7 million.

Shipments of adhesives and sealants (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of paints and allied products (\$18.4 million) and plastics materials and resins (\$14.3 million).

Shipments of adhesives and sealants (primary products) from establishments classified in industry 2891 in 1972 represented 82 percent (coverage ratio) of these products valued at \$954.3 million shipped by all industries. Other industries shipping adhesives and sealants consisted mainly of industry 2851, Paints and Allied Products (\$43.0 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed

*Note that the "short title" for this industry is used throughout the report.

from industry averages. For industry 2891, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 2892.—EXPLOSIVES

This industry comprises establishments primarily engaged in manufacturing explosives such as sporting powder, blasting powder, high explosives, nitrated carbohydrates, safety fuses, and blasting and detonating caps. Included in this industry are government-owned plants operated by private firms for the account of the Federal Government. Establishments primarily engaged in manufacturing ammunition for small arms are classified in industry 3482 and fireworks and pyrotechnics such as flares (all kinds) and railroad torpedoes, in industry 2899. Establishments primarily engaged in shooting wells and also engaged in manufacturing nitroglycerine are included in the census of minerals. For a detailed list of products of industry 2892, refer to table 6A, product codes 28921 13 to 28921 71.

The code number as well as the definition of this industry was unchanged between 1967 and 1972.

The data include information for government-owned plants operated by private firms for the account of the Federal Government, but exclude information for government-owned and government-operated plants. Since the capital expenditures made by these privately operated government plants are paid for by current billings to the U.S. Government, these amounts are excluded from the statistics shown in this report which represent expenditures for privately owned facilities. The detailed product statistics appearing in table 6A, represent only the amounts and type of explosives produced by privately owned and privately operated plants.

Value of shipments and other receipts of the Explosives Industry in 1972 totaled \$408.7 million. This included shipments of explosives (primary products) valued at \$225.3 million, shipments of other products (secondary products) valued at \$20.6 million, and miscellaneous receipts (mainly contract work) of \$162.8 million.

Shipments of explosives (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of nitrogenous fertilizers and industrial organic chemicals, n.e.c.

Shipments of explosives (primary products) from establishments classified in industry 2892 in 1972 represented 95 percent (coverage ratio) of these products valued at \$237.6 million shipped by all industries. In 1967, the coverage ratio was 93 percent. Other industries shipping explosives consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C. (over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2892, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 2893.—PRINTING INKS

This industry comprises establishments primarily engaged in manufacturing printing ink, gravure ink, screen process ink, and lithographic ink. For a detailed list of products of industry 2893, refer to table 6A, product codes 28931 05 to 28935 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Printing Ink Industry in 1972 totaled \$508.4 million. This included shipments of printing ink (primary products) valued at \$460.7 million, shipments of other products (secondary products) valued at \$24.9 million, and miscellaneous receipts (mainly resales) of \$22.7 million.

Shipments of printing ink (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of paints and allied products (\$9.1 million), cyclic crudes and intermediates and lithographic platemaking services (both over \$2 million).

Shipments of printing ink (primary products) from establishments classified in industry 2893 in 1972 represented 93 percent (coverage ratio) of these products valued at \$498.0 million shipped by all industries. In 1967, the coverage ratio was 95 percent. Other industries shipping printing ink consisted mainly of industry 2851, Paints and Allied Products (\$9.8 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2893, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 2895.—CARBON BLACK

This industry comprises establishments primarily engaged in manufacturing carbon black (channel and furnace black).

The code number as well as the definition of this industry was unchanged between 1972 and 1967.

Value of shipments and other receipts of the Carbon Black Industry in 1972 totaled \$227.0 million.

Shipments of carbon black (primary products) in 1972 represented a minimum of 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 100 percent.

Shipments of carbon black (primary products) from establishments classified in industry 2892 in 1972 represented a minimum of 95 percent (coverage ratio) of these products valued at \$227.1 million shipped by all industries. In 1967, more than 95 percent of the total value of carbon black were shipped by plants, classified in industry 2895.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2895, these establishments accounted for less than 1 percent of the value of shipments.

INDUSTRY 2899.—CHEMICAL PREPARATIONS, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in manufacturing miscellaneous chemical preparations, not elsewhere classified, such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry soaps, writing and stamp pad inks; and industrial compounds, such as boiler and heat insulating compounds, metal, oil, and water treating compounds, waterproofing compounds; and chemical supplies for foundries.

Establishments primarily engaged in manufacturing vegetable gelatin (agar-agar) are classified in industry 2833 and dessert preparations based on gelatin in industry 2099.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been slightly changed from the previous classification system. The industry as now constituted includes gelatin, except ready-to-eat desserts, (formerly classified in industry 2891), sizes (formerly in industry 2891), and embalming chemicals (formerly in industry 3994), and excludes sealants, n.e.c. (now classified in industry 2991).

The effect of the revisions on the data are summarized in table 1C, "Composition of new (1972) SIC industries based on old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 16 establishments with 1.9 thousand employees (formerly included in industry 2891, Adhesives and Gelatin); and 7 establishments with 0.2 thousand employees (formerly included in industry 3994, Morticians' Goods), are now classified in industry 2899, Chemical Preparations, N.E.C.

Value of shipments and other receipts of the Chemical Preparations, N.E.C., Industry in 1972 totaled \$2,203.5 million. This included shipments of chemical preparations, n.e.c., (primary products) valued at \$1,675.0 million, shipments of other products (secondary products) valued at \$321.6 million, and miscellaneous receipts (mainly resales) of \$205.7 million.

Shipments of chemical preparations, n.e.c., (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 82 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals (\$44.9 million) and soaps and other detergents (\$16.6 million).

Shipments of chemical preparations, n.e.c., (primary products) from establishments classified in industry 2899 in 1972 represented 75 percent (coverage ratio) of these products valued at \$2,228.3 million shipped by all industries. In 1967, the coverage ratio was 74 percent. Other industries shipping chemical preparations, n.e.c., consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$81.5 million) and industry 2842, Polishes and Sanitation Goods (\$61.9 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2899, these establishments accounted for 8 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2891.--ADHESIVES AND SEALANTS															
1972 Census	463	187	14.9	148.2	8.5	17.6	68.8	426.6	504.0	928.0	24.9	(NA)	101.9	89	82
INDUSTRY 2892.--EXPLOSIVES															
1972 Census	93	51	18.9	181.6	13.5	26.1	116.8	³ 285.5	⁴ 123.4	⁵ 408.7	⁶ 14.9	(NA)	39.5	⁷ 92	⁸ 95
1971 ASM	(NA)	(NA)	19.5	179.5	13.4	27.3	113.7	238.0	180.3	424.3	10.9	(S)	57.7	(NA)	(NA)
1970 ASM	(NA)	(NA)	25.2	216.4	17.4	35.5	138.1	275.8	196.7	503.9	17.4	(S)	40.4	(NA)	(NA)
1969 ASM	(NA)	(NA)	34.7	273.1	25.1	50.4	183.5	392.9	318.2	694.2	19.5	(S)	86.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	35.8	255.8	26.6	53.4	177.3	398.0	300.9	699.5	27.6	202.5	41.1	(NA)	(NA)
1967 Census	92	52	32.8	227.0	24.1	47.9	156.3	376.0	270.7	647.0	21.8	188.0	39.1	92	93
1966 ASM	(NA)	(NA)	23.9	165.6	17.3	34.2	104.5	255.3	218.8	469.4	22.9	(NA)	39.8	(NA)	(NA)
1965 ASM	(NA)	(NA)	14.1	93.6	9.8	19.2	60.4	177.7	123.4	296.4	9.0	(NA)	32.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	13.5	88.7	9.6	18.7	57.0	169.7	120.6	288.9	7.5	124.5	27.6	(NA)	(NA)
1963 Census	68	47	14.8	91.6	10.9	20.9	60.1	165.7	116.4	283.3	5.5	121.5	27.2	88	94
1962 ASM	(NA)	(NA)	14.0	85.0	10.8	20.8	57.5	148.7	120.5	270.5	5.9	128.8	23.8	(NA)	(NA)
1961 ASM	(NA)	(NA)	12.4	74.5	9.6	18.3	49.9	123.2	109.6	233.2	6.4	(NA)	24.7	(NA)	(NA)
1960 ASM	(NA)	(NA)	12.5	73.2	9.5	18.2	48.8	132.0	100.1	232.7	6.0	(NA)	25.4	(NA)	(NA)
1959 ASM	(NA)	(NA)	13.7	76.4	10.3	19.3	50.2	141.4	103.5	245.1	5.6	(NA)	26.9	(NA)	(NA)
1958 Census	77	58	15.0	79.6	10.6	20.0	50.9	131.6	95.4	228.6	9.3	(NA)	26.0	96	95
INDUSTRY 2892.--EXPLOSIVES (Privately Owned and Operated Establishments)															
1972 Census	86	44	7.9	72.7	5.9	11.0	47.9	150.9	105.3	255.6	14.4	(NA)	39.5	92	95
INDUSTRY 2893.--PRINTING INK															
1972 Census	407	145	9.6	99.3	5.8	12.1	49.8	232.0	281.7	508.4	12.6	(NA)	67.9	95	93
1971 ASM	(NA)	(NA)	8.2	75.6	5.1	10.4	39.2	173.9	229.2	401.6	12.4	124.2	55.7	(NA)	(NA)
1970 ASM	(NA)	(NA)	9.1	76.1	5.7	11.7	39.9	172.4	226.1	399.8	12.2	128.9	52.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	10.8	91.1	6.5	13.4	51.0	191.1	259.6	448.1	15.1	107.6	59.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	10.4	85.5	6.4	13.5	46.6	186.6	231.4	414.8	9.3	101.7	51.8	(NA)	(NA)
1967 Census	360	124	9.7	74.0	6.4	13.6	41.1	166.6	211.9	375.6	7.1	97.8	44.7	93	95
1966 ASM	(NA)	(NA)	10.1	74.7	6.4	13.7	41.4	181.5	198.3	377.0	*3.5	(NA)	44.9	(NA)	(NA)
1965 ASM	(NA)	(NA)	9.3	67.7	6.0	12.8	38.3	162.5	174.2	335.2	4.5	(NA)	37.5	(NA)	(NA)
1964 ASM	(NA)	(NA)	8.5	61.7	5.4	12.1	35.0	136.6	166.1	299.8	*7.4	78.4	36.0	(NA)	(NA)
1963 Census	348	103	8.5	55.9	5.6	11.8	32.4	125.1	143.6	268.0	4.6	73.1	31.1	93	92
1962 ASM	(NA)	(NA)	8.4	57.6	5.6	12.1	33.2	123.2	143.2	265.7	*4.2	67.8	34.4	(NA)	(NA)
1961 ASM	(NA)	(NA)	8.0	52.6	5.5	11.8	31.5	117.5	137.4	252.5	*3.4	(NA)	30.8	(NA)	(NA)
1960 ASM	(NA)	(NA)	8.3	51.7	5.6	12.1	30.6	108.3	136.4	245.5	*4.3	(NA)	29.0	(NA)	(NA)
1959 ASM	(NA)	(NA)	8.1	47.0	5.5	11.7	28.8	110.1	131.5	239.9	3.4	(NA)	27.6	(NA)	(NA)
1958 Census	302	94	8.0	45.1	5.4	11.2	26.0	108.8	119.1	228.1	4.8	(NA)	25.1	93	97
INDUSTRY 2895.--CARBON BLACK															
1972 Census	37	33	2.9	31.9	2.3	5.1	24.1	137.6	88.9	227.0	11.8	(NA)	18.1	⁸ 95	⁸ 95
1971 ASM	(NA)	(NA)	3.2	31.8	2.6	5.2	23.3	137.9	85.8	223.4	17.8	280.3	21.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	3.3	31.0	2.5	5.4	22.7	128.8	85.2	215.5	20.5	244.5	19.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	2.9	26.5	2.3	5.2	20.3	125.5	75.0	201.2	15.8	192.9	15.1	(NA)	(NA)
1968 ASM	(NA)	(NA)	2.8	23.8	2.3	5.0	18.5	125.9	72.7	199.1	27.0	193.0	15.4	(NA)	(NA)
1967 Census	34	29	2.8	22.8	2.3	5.2	18.0	100.8	67.4	167.8	23.4	170.2	16.5	100	(D)
1966 ASM	(NA)	(NA)	2.9	23.5	2.3	5.0	18.2	113.1	75.6	187.8	13.3	(NA)	17.4	(NA)	(NA)
1965 ASM	(NA)	(NA)	2.8	21.2	2.3	5.0	16.5	105.5	65.5	170.5	10.1	(NA)	16.0	(NA)	(NA)
1964 ASM	(NA)	(NA)	2.8	21.0	2.2	4.9	15.2	101.0	62.2	164.4	8.0	133.3	15.4	(NA)	(NA)
1963 Census	33	31	3.0	20.7	2.3	4.9	14.9	91.8	55.5	149.1	4.0	132.2	15.0	(D)	(D)
1962 ASM	(NA)	(NA)	3.0	20.5	2.4	5.2	15.8	92.5	54.6	148.2	9.6	151.0	16.6	(NA)	(NA)
1961 ASM	(NA)	(NA)	3.1	20.7	2.6	5.6	16.3	88.2	55.5	144.7	10.2	(NA)	18.3	(NA)	(NA)
1960 ASM	(NA)	(NA)	3.2	20.6	2.7	6.0	16.9	84.7	68.4	150.3	10.3	(NA)	19.4	(NA)	(NA)
1959 ASM	(NA)	(NA)	3.1	19.7	2.6	5.8	15.9	81.0	60.0	144.3	6.1	(NA)	16.0	(NA)	(NA)
1958 Census	36	32	3.2	18.6	2.6	5.6	14.7	72.6	46.9	119.3	4.6	(NA)	19.5	100	100

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2899.--CHEMICAL PREPARATIONS, N.E.C.															
1972 Census, New SIC..	1,606	360	37.1	356.0	22.6	43.9	176.0	1,124.7	1,086.4	2,202.3	71.4	(NA)	254.7	84	75
1972 Census, Old SIC..	1,576	339	35.7	340.0	21.9	42.3	167.7	1,064.7	1,008.5	2,065.5	67.8	(NA)	231.2	(NA)	(NA)
1971 ASM	(NA)	(NA)	34.9	320.4	20.7	40.2	150.2	993.7	870.1	1,858.5	101.4	808.2	232.9	(NA)	(NA)
1970 ASM	(NA)	(NA)	36.1	303.3	22.2	44.4	149.3	962.4	840.1	1,792.2	74.1	780.4	231.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	34.9	274.7	21.8	48.1	137.7	918.2	767.7	1,677.5	60.5	632.5	194.0	(NA)	(NA)
1968 ASM	(NA)	(NA)	35.1	261.2	22.0	45.8	129.8	846.9	710.3	1,548.7	97.4	623.3	197.6	(NA)	(NA)
1967 Census.....	1,373	306	33.3	230.2	21.2	42.0	115.6	732.4	648.7	1,381.6	54.5	504.3	167.1	82	74
1966 ASM	(NA)	(NA)	29.7	211.5	18.2	38.6	105.7	679.1	652.2	1,322.5	34.0	(NA)	157.3	(NA)	(NA)
1965 ASM	(NA)	(NA)	28.7	196.7	17.4	36.8	96.3	612.6	573.8	1,182.0	29.7	(NA)	134.6	(NA)	(NA)
1964 ASM	(NA)	(NA)	27.2	180.3	16.9	34.9	89.8	567.3	492.0	1,057.2	22.9	399.2	130.4	(NA)	(NA)
1963 Census.....	1,387	242	25.8	162.9	15.7	33.0	81.1	505.9	435.7	931.7	22.1	383.9	117.7	82	71
1962 ASM	(NA)	(NA)	24.3	148.5	14.6	30.9	72.1	490.8	408.3	895.6	37.0	370.5	118.7	(NA)	(NA)
1961 ASM	(NA)	(NA)	24.0	145.9	14.4	30.0	70.2	445.1	381.6	827.1	*42.0	(NA)	111.6	(NA)	(NA)
1960 ASM	(NA)	(NA)	23.6	139.4	14.4	28.8	68.4	429.4	361.7	787.6	22.6	(NA)	107.5	(NA)	(NA)
1959 ASM	(NA)	(NA)	25.4	145.6	16.1	31.5	73.4	412.1	393.2	802.0	19.8	(NA)	108.3	(NA)	(NA)
1958 Census	1,294	225	25.1	133.8	16.0	31.3	70.3	365.8	358.5	726.2	26.1	(NA)	102.2	86	76

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2891	Industry 2892	Industry 2893	Industry 2895	Industry 2899
1972.....	316	55	213	11	1,485
1967.....	(NA)	37	207	11	1,275
1963.....	(NA)	41	216	8	1,312

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample or establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²Explosives, total includes in addition to privately owned establishments, government-owned, contractor-operated plants. See industry 2892, privately owned and operated establishments, below.

³Data include value added for government-owned, contractor-operated plants which was estimated based upon averages reported for commercial establishments in prior years.

⁴Data exclude government-owned materials furnished to government-owned, contractor-operated plants and includes fuel and electricity purchased by or for these establishments.

⁵Data include a calculated value of shipments for government-owned, contractor-operated plants comprised of adjusted value added (estimated as described in footnote 2) plus the cost of fuels and electricity energy.

⁶Includes expenditures for plants under construction but not in operation. Capital expenditures of government-owned, contractor-operated plants are excluded from the totals for the industry.

⁷Government-owned, privately operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all dollar receipts for these establishments were included in "miscellaneous receipts."

⁸This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2891.--ADHESIVES AND SEALANTS											
1972 Census.....	9,946	(NA)	57	2,070	3.91	.54	.71	(NA)	28,631	.35	24.24
INDUSTRY 2892.--EXPLOSIVES											
1972 Census.....	9,608	(NA)	71	1,933	4.47	.30	.75	(NA)	15,105	64	10.94
1971 ASM.....	9,205	(S)	69	2,037	4.17	.43	.85	(S)	12,205	75	8.72
1970 ASM.....	8,587	(S)	69	2,040	3.89	.39	.82	(S)	10,944	79	7.77
1969 ASM.....	7,870	(S)	72	2,008	3.64	.46	.85	(S)	11,323	70	7.80
1968 ASM.....	7,145	5,660	74	2,008	3.32	.43	.80	.29	11,117	64	7.45
1967 Census.....	6,919	5,730	73	1,991	3.26	.42	.77	.29	11,459	60	7.84
1966 ASM.....	6,923	(NA)	72	1,979	3.06	.47	.82	(NA)	10,672	65	7.47
1965 ASM.....	6,627	(NA)	69	1,962	3.15	.42	.73	(NA)	12,575	53	9.27
1964 ASM.....	6,572	9,220	71	1,950	3.05	.42	.72	.43	12,573	52	9.07
1963 Census.....	6,184	8,210	74	1,912	2.88	.41	.73	.43	11,188	55	7.94
1962 ASM.....	6,075	9,200	77	1,927	2.77	.45	.76	.48	10,634	57	7.16
1961 ASM.....	5,984	(NA)	77	1,903	2.73	.47	.79	(NA)	9,902	60	6.75
1960 ASM.....	5,856	(NA)	76	1,918	2.68	.43	.74	(NA)	10,561	55	7.24
1959 ASM.....	5,581	(NA)	75	1,875	2.61	.42	.73	(NA)	10,331	54	7.33
1958 Census.....	5,317	(NA)	71	1,878	2.54	.42	.77	(NA)	8,793	60	6.58
INDUSTRY 2893.--PRINTING INK											
1972 Census.....	10,344	(NA)	59	2,122	4.12	.55	.75	(NA)	24,167	.43	19.17
1971 ASM.....	9,220	15,146	62	2,039	3.77	.57	.76	.31	21,207	44	16.72
1970 ASM.....	8,363	14,164	63	2,053	3.41	.57	.76	.32	18,945	44	14.74
1969 ASM.....	8,435	9,960	60	2,062	3.81	.58	.78	.25	17,694	48	14.26
1968 ASM.....	8,221	9,780	62	2,109	3.45	.56	.76	.25	17,942	46	13.82
1967 Census.....	7,590	10,080	66	2,111	3.03	.56	.76	.26	17,093	44	12.28
1966 ASM.....	7,382	(NA)	63	2,143	3.02	.53	.72	(NA)	17,933	41	13.25
1965 ASM.....	7,253	(NA)	64	2,156	2.99	.52	.72	(NA)	17,401	42	12.66
1964 ASM.....	7,219	9,220	64	2,231	2.88	.55	.76	.26	15,985	45	11.26
1963 Census.....	6,617	8,600	67	2,094	2.75	.54	.74	.27	14,800	45	10.62
1962 ASM.....	6,822	8,070	67	2,146	2.74	.54	.76	.26	14,577	47	10.16
1961 ASM.....	6,559	(NA)	69	2,154	2.66	.54	.75	(NA)	14,641	45	9.92
1960 ASM.....	6,256	(NA)	68	2,156	2.53	.56	.77	(NA)	13,089	48	8.93
1959 ASM.....	5,835	(NA)	69	2,123	2.46	.55	.74	(NA)	13,680	43	9.39
1958 Census.....	5,662	(NA)	68	2,077	2.32	.52	.72	(NA)	13,669	41	9.73
INDUSTRY 2895.--CARBON BLACK											
1972 Census.....	11,000	(NA)	79	2,217	4.73	.39	.53	(NA)	47,448	.23	26.98
1971 ASM.....	9,938	87,594	81	2,000	4.48	.38	.53	1.25	43,094	23	26.52
1970 ASM.....	9,394	74,091	76	2,160	4.20	.40	.54	1.13	39,030	24	23.85
1969 ASM.....	9,138	66,520	79	2,261	3.90	.37	.50	.96	43,276	21	24.13
1968 ASM.....	8,500	68,930	82	2,174	3.70	.37	.48	.97	44,964	19	25.18
1967 Census.....	8,202	60,790	82	2,280	3.46	.40	.54	1.01	36,770	22	19.45
1966 ASM.....	8,145	(NA)	79	2,200	3.62	.40	.53	(NA)	39,231	21	22.48
1965 ASM.....	7,462	(NA)	80	2,209	3.26	.38	.51	(NA)	37,177	20	20.91
1964 ASM.....	7,411	47,610	76	2,253	3.12	.38	.51	.81	35,657	21	20.73
1963 Census.....	6,867	44,070	76	2,148	3.04	.37	.51	.89	30,482	23	18.68
1962 ASM.....	6,836	50,330	81	2,144	3.01	.37	.51	1.02	30,788	22	17.64
1961 ASM.....	6,682	(NA)	83	2,192	2.89	.38	.53	(NA)	28,432	24	15.64
1960 ASM.....	6,522	(NA)	84	2,257	2.83	.46	.59	(NA)	26,772	24	14.16
1959 ASM.....	6,355	(NA)	84	2,213	2.76	.42	.55	(NA)	26,114	24	14.07
1958 Census.....	5,884	(NA)	83	2,149	2.61	.39	.55	(NA)	22,973	26	12.86
INDUSTRY 2899.--CHEMICAL PREPARATIONS, N.E.C.											
1972 Census, New SIC...	9,596	(NA)	61	1,942	4.01	.49	.65	(NA)	30,315	32	25.62
1972 Census, Old SIC...	9,524	(NA)	61	1,932	3.96	.49	.65	(NA)	29,824	33	25.17
1971 ASM.....	9,181	23,158	59	1,942	3.74	.47	.64	.43	28,473	32	24.72
1970 ASM.....	8,402	21,618	62	2,000	3.36	.47	.64	.43	26,659	32	21.68
1969 ASM.....	7,871	18,120	62	2,206	2.86	.46	.62	.38	26,309	30	19.09
1968 ASM.....	7,442	17,760	63	2,082	2.83	.46	.63	.40	24,128	31	18.49
1967 Census.....	6,914	15,140	63	1,990	2.75	.47	.64	.37	21,857	32	17.43
1966 ASM.....	7,131	(NA)	62	2,114	2.74	.49	.65	(NA)	22,902	31	17.61
1965 ASM.....	6,859	(NA)	61	2,116	2.61	.49	.65	(NA)	21,362	32	16.62
1964 ASM.....	6,622	14,680	62	2,069	2.57	.47	.64	.38	20,832	32	16.26
1963 Census.....	6,318	14,880	61	2,106	2.46	.47	.64	.41	19,616	32	15.32
1962 ASM.....	6,121	15,250	60	2,111	2.34	.46	.62	.41	20,224	30	15.89
1961 ASM.....	6,078	(NA)	60	2,077	2.34	.46	.64	(NA)	18,551	33	14.85
1960 ASM.....	5,915	(NA)	61	1,992	2.38	.46	.64	(NA)	18,223	32	14.93
1959 ASM.....	5,741	(NA)	63	1,965	2.33	.49	.67	(NA)	16,247	35	13.07
1958 Census.....	5,325	(NA)	64	1,955	2.24	.49	.68	(NA)	14,553	37	11.68

(NA) Not available.

(S) Withheld because the estimates did not meet publication standards.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
New Industry 2891.--Adhesives and Sealants.....	463	187	14.9	426.6	928.0	(X)	(X)	(X)	(X)	(X)
Old Industry 2821.--Plastics Materials and Resins.....	46	24	1.7	41.9	123.2	323	263	54.8	2,160.5	4,478.2
Old Industry 2851.--Paints and Allied Products.....	37	24	2.6	76.9	121.2	1,599	687	66.0	1,792.4	3,824.3
Old Industry 2891.--Adhesives and Gelatin.....	343	119	9.0	259.2	589.0	359	132	10.9	340.7	745.0
Old Industry 3069.--Fabricated Rubber Products, N.E.C....	37	20	1.6	48.6	94.6	1,110	600	98.0	1,551.3	2,795.5
New Industry 2899.--Chemical Preparations, N.E.C.....	1,606	360	37.1	1,124.7	2,202.3	(X)	(X)	(X)	(X)	(X)
Old Industry 2891.--Adhesives and Gelatin.....	16	13	1.9	81.4	155.6	359	132	10.9	340.7	745.0
Old Industry 2899.--Chemical Preparations, N.E.C.....	1,564	330	33.6	998.0	1,949.9	1,576	339	35.7	1,064.7	2,065.5
Old Industry 3994.--Morticians Goods.....	7	3	.2	3.5	5.1	515	189	14.8	210.3	391.9
Other Industries ¹	19	14	1.4	41.8	91.7	(X)	(X)	(X)	(X)	(X)

(X) Not applicable.

¹These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their product classification. Since a number of industries are involved, separate data would disclose operations of individual companies and thus cannot be shown.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)						
2891-- ADHESIVES AND SEALANTS													
UNITED STATES.	463	187	14.9	148.2	8.5	17.6	68.8	426.6	504.0	928.0	24.9	(NA)	(NA)
NORTHEAST REGION	153	68	5.2	49.8	2.8	5.7	22.6	119.2	151.8	271.8	8.9	(NA)	(NA)
NEW ENGLAND DIVISION	47	23	2.2	20.8	.9	2.0	8.0	47.5	64.1	111.5	3.4	(NA)	(NA)
MASSACHUSETTS.	32	16	1.5	14.9	.7	1.6	6.3	31.6	49.0	80.3	2.1	(NA)	(NA)
CONNECTICUT.	9	4	.5	5.0	.1	.2	1.1	14.8	10.5	25.3	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	106	45	3.0	29.0	1.8	3.7	14.5	71.8	87.7	160.3	5.5	(NA)	(NA)
NEW YORK	39	14	1.2	11.3	.8	1.5	6.4	27.5	36.7	66.7	1.6	(NA)	(NA)
NEW JERSEY	42	22	1.1	11.0	.7	1.4	5.3	25.9	33.3	57.9	2.4	(NA)	(NA)
PENNSYLVANIA	25	9	.6	6.7	.4	.7	2.8	18.3	17.8	35.7	1.5	(NA)	(NA)
NORTH CENTRAL REGION	150	68	5.7	59.5	3.3	6.9	27.3	151.3	170.6	321.2	8.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	119	54	4.6	49.5	2.6	5.5	21.9	123.3	146.0	268.9	7.4	(NA)	(NA)
OHIO	36	18	1.9	21.5	1.0	1.9	7.7	53.3	48.3	101.6	3.1	(NA)	(NA)
ILLINOIS	50	26	1.6	16.7	1.0	2.1	9.0	43.6	63.6	106.1	1.3	(NA)	(NA)
MICHIGAN	17	7	.7	7.2	.4	.8	2.7	18.7	21.7	40.1	2.5	(NA)	(NA)
WISCONSIN.	10	2	.3	3.6	.2	.6	2.3	6.6	9.7	17.2	.5	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	31	14	1.1	10.0	.7	1.4	5.4	28.0	24.6	52.3	1.4	(NA)	(NA)
MISSOURI	18	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	88	23	2.2	20.0	1.3	2.8	9.3	94.5	85.6	178.9	3.5	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	42	13	1.3	11.5	.8	1.6	5.6	49.0	49.6	98.2	2.2	(NA)	(NA)
MARYLAND	6	2	.4	3.3	.2	.5	1.9	8.1	5.6	13.9	.2	(NA)	(NA)
NORTH CAROLINA	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	16	6	.5	4.4	.3	.7	1.9	17.3	32.7	49.5	.9	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	19	6	.6	5.2	.3	.8	2.4	34.2	20.4	54.5	.4	(NA)	(NA)
KENTUCKY	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	27	4	.3	3.3	.2	.4	1.4	11.2	15.6	26.3	.9	(NA)	(NA)
TEXAS.	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	72	28	1.9	18.9	1.1	2.2	9.5	61.6	96.0	156.0	3.6	(NA)	(NA)
PACIFIC DIVISION	70	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	49	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2892-- EXPLOSIVES													
UNITED STATES.	93	51	18.9	181.6	13.5	26.1	116.8	285.5	123.4	408.7	14.9	32.8	376.0
NORTHEAST REGION.	16	10	3.1	28.7	2.3	4.1	18.0	53.5	23.1	77.1	2.1	FF	(D)
NEW ENGLAND DIVISION.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION.	14	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA.	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION.	22	15	5.6	57.0	3.8	7.2	34.3	88.8	40.5	129.0	6.8	8.6	(D)
EAST NORTH CENTRAL DIVISION.	11	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ILLINOIS.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	63.2
WISCONSIN.	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NORTH CENTRAL DIVISION.	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI.	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KANSAS.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION.	28	14	8.8	83.8	6.5	12.8	56.5	120.0	36.1	156.2	3.1	13.4	141.2
SOUTH ATLANTIC DIVISION.	9	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
VIRGINIA.	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST VIRGINIA.	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
FLORIDA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	8	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TENNESSEE.	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ALABAMA.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION.	11	4	.6	3.7	.4	.8	2.0	6.9	3.6	9.9	1.7	(NA)	(NA)
ARKANSAS.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	27	12	1.3	12.1	1.0	1.9	8.0	23.2	23.7	46.3	2.4	EE	(D)
MOUNTAIN DIVISION.	12	4	.4	3.5	.3	.7	2.5	9.0	14.6	23.0	.2	.5	8.6
ARIZONA.	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PACIFIC DIVISION.	15	8	.9	8.7	.6	1.2	5.5	14.2	9.2	23.2	2.1	CC	(D)
WASHINGTON.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.5
CALIFORNIA.	11	5	.5	4.8	.3	.7	2.7	9.8	3.8	13.2	(D)	BB	(D)
2893-- PRINTING INK													
UNITED STATES.	407	145	9.6	99.3	5.8	12.1	49.8	232.0	281.7	508.4	12.6	9.7	166.6
NORTHEAST REGION.	121	45	3.1	33.0	1.9	3.9	16.4	70.5	82.5	150.9	4.0	3.5	57.9
NEW ENGLAND DIVISION.	21	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS.	16	1	.2	1.5	.1	.2	.8	3.8	4.0	7.8	.5	AA	(D)
MIDDLE ATLANTIC DIVISION.	99	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK.	29	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY.	48	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA.	22	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION.	127	62	4.1	42.2	2.5	5.3	21.5	97.3	119.9	215.6	5.9	3.8	72.5
EAST NORTH CENTRAL DIVISION.	102	51	3.5	36.8	2.1	4.6	19.1	85.0	105.3	189.1	4.9	3.4	64.3
OHIO.	33	16	1.1	10.7	.6	1.3	5.6	24.2	31.3	55.2	1.5	.8	14.1
ILLINOIS.	24	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	41.4
MICHIGAN.	7	4	.2	2.0	.1	.2	.9	4.6	4.2	8.7	.3	AA	(D)
WISCONSIN.	13	5	.3	3.3	.2	.4	1.6	7.4	10.5	17.7	.8	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	25	11	.6	5.3	.3	.7	2.4	12.3	14.6	26.5	1.0	.4	8.2
MINNESOTA.	7	3	.2	2.0	.1	.3	.9	3.7	3.0	6.6	.2	(NA)	(NA)
MISSOURI.	15	7	.3	3.0	.2	.4	1.4	7.7	10.5	17.9	.7	.3	5.2
SOUTH REGION.	93	20	1.4	12.8	.8	1.5	6.2	36.6	46.0	81.2	1.8	1.1	19.2
SOUTH ATLANTIC DIVISION.	45	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
DISTRICT OF COLUMBIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	15	3	.2	2.1	.1	.3	1.1	5.2	8.5	13.6	.2	.2	3.2
EAST SOUTH CENTRAL DIVISION.	16	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	30	5	.3	2.9	.2	.4	1.4	10.7	10.5	20.8	.4	AA	(D)
TEXAS.	20	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	66	18	1.1	11.3	.6	1.3	5.7	27.7	33.3	60.7	.9	1.4	17.1
PACIFIC DIVISION.	56	17	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	16.4
CALIFORNIA.	48	14	.9	9.4	.5	1.1	4.9	23.0	27.6	50.6	.8	1.2	14.5
2895-- CARBON BLACK													
UNITED STATES.	37	33	2.9	31.9	2.3	5.1	24.1	137.6	88.9	227.0	11.8	2.8	100.8
SOUTH REGION.	28	27	2.6	29.9	2.1	4.8	22.2	124.9	79.8	205.0	1.3	2.6	94.8
WEST SOUTH CENTRAL DIVISION.	25	24	2.5	27.4	2.0	4.5	21.1	115.1	71.8	187.5	8.7	FF	(D)
LOUISIANA.	8	8	1.1	12.0	.9	2.2	9.9	44.9	28.7	74.3	3.8	1.0	33.0
TEXAS.	15	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	52.7

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2899-- CHEMICAL PREPARATIONS, NEC													
UNITED STATES.	1 606	360	37.1	356.0	22.6	43.9	176.0	1 124.7	1 086.4	2 202.3	71.4	33.3	732.4
NORTHEAST REGION.	482	117	10.6	100.1	6.5	12.5	49.2	296.8	293.1	582.5	20.7	10.1	189.1
NEW ENGLAND DIVISION.	102	20	2.3	24.8	1.2	2.3	10.6	60.9	65.8	126.8	5.4	1.4	27.2
MASSACHUSETTS. E1	52	7	1.3	14.7	.8	1.5	7.8	35.4	31.1	67.8	4.0	.6	11.6
CONNECTICUT.	27	11	.8	9.0	.3	.6	2.1	22.7	32.6	54.6	1.2	.6	11.1
MIDDLE ATLANTIC DIVISION.	380	97	8.4	75.3	5.2	10.2	38.6	235.9	227.3	455.7	15.3	8.7	161.8
NEW YORK. E1	153	29	2.2	21.4	1.4	2.9	10.3	63.6	72.4	134.3	5.4	2.3	51.0
NEW JERSEY.	118	40	4.0	35.4	2.5	4.6	19.0	116.4	101.5	212.8	6.5	4.0	67.4
PENNSYLVANIA. E1	109	28	2.2	18.5	1.4	2.7	9.2	55.9	53.4	108.5	3.4	2.4	43.5
NORTH CENTRAL REGION.	492	131	14.9	153.4	8.8	18.0	75.8	502.0	491.2	991.1	28.5	13.7	384.3
EAST NORTH CENTRAL DIVISION.	397	108	11.2	111.8	6.8	13.9	57.7	362.0	395.1	756.1	19.1	10.5	272.1
OHIO.	126	32	4.2	41.4	2.5	5.1	21.3	112.8	110.8	223.8	5.9	4.0	95.5
INDIANA. E2	31	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	17.1
ILLINOIS.	125	36	3.0	29.5	1.9	3.7	15.3	114.1	116.1	229.2	8.1	3.2	86.9
MICHIGAN.	80	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	67.8
WISCONSIN.	35	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.8
WEST NORTH CENTRAL DIVISION.	95	23	3.7	41.6	2.0	4.1	18.1	140.0	96.1	235.1	9.3	3.1	112.2
MINNESOTA.	19	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
IOWA.	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	39	11	1.2	12.2	.4	.7	3.0	35.5	27.5	62.8	(D)	.8	19.6
KANSAS.	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION. E1	369	66	7.0	63.5	4.4	8.0	30.4	182.7	196.7	378.9	10.3	6.9	99.1
SOUTH ATLANTIC DIVISION. E1	153	27	2.5	23.3	1.5	3.0	9.6	70.1	64.5	136.3	(D)	2.1	28.5
MARYLAND.	23	8	.7	6.3	.4	.8	2.8	11.2	14.4	25.7	.6	.7	9.5
VIRGINIA.	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA. E1	29	4	.8	5.6	.5	.9	2.1	14.6	12.1	26.4	.8	.6	8.3
GEORGIA.	32	10	.7	7.4	.4	.7	2.6	26.7	24.2	53.1	(D)	(NA)	(NA)
FLORIDA. E4	48	3	.2	1.9	.2	.3	.8	4.3	4.6	8.7	.3	.4	3.4
EAST SOUTH CENTRAL DIVISION.	36	6	.9	7.4	.6	1.3	4.1	26.8	40.6	67.1	1.5	2.8	29.1
TENNESSEE.	17	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION. E1	180	33	3.6	32.8	2.3	3.7	16.6	85.8	91.6	175.5	5.2	2.0	41.5
LOUISIANA. E1	21	5	.4	2.5	.3	.6	1.9	6.9	12.3	18.8	.9	.2	6.7
TEXAS. E1	130	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	31.4
WEST REGION. E1	263	46	4.6	39.0	2.9	5.4	20.7	143.3	105.3	249.7	11.9	2.6	60.0
MOUNTAIN DIVISION. E2	45	10	.7	5.4	.4	.9	2.7	14.7	9.9	24.5	1.4	.3	6.3
COLORADO. E2	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. E3	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH. E2	9	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PACIFIC DIVISION. E1	218	36	3.9	33.6	2.4	4.6	18.0	128.6	95.4	225.3	10.5	2.3	53.7
OREGON.	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. E1	189	31	3.7	30.9	2.3	4.3	16.8	112.4	80.0	195.9	9.8	2.2	52.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area, on Old (1967) SIC Basis:
1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2899--CHEMICAL PREPARATIONS, N.E.C.													
United States.....	1,576	339	35.7	340.0	21.9	42.3	167.7	1,064.7	1,008.5	2,065.5	67.8	33.3	732.4
Northeast Region.....	473	107	8.8	79.2	5.4	10.3	38.6	235.2	238.5	467.1	16.3	10.1	189.1
New England Division....	97	15	1.2	12.1	.5	1.0	3.5	31.1	38.3	68.4	1.4	1.4	27.2
Massachusetts.....	49	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	11.6
Connecticut.....	25	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	11.1
Middle Atlantic Division	374	90	7.6	67.1	4.8	9.3	35.1	204.1	200.1	398.7	14.8	8.7	161.8
New York.....	153	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	51.0
New Jersey.....	115	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	67.4
Pennsylvania.....	106	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	43.5
North Central Region..	481	124	14.7	150.5	8.8	18.0	73.8	481.9	469.8	950.6	27.9	13.7	384.3
East North Central Div..	388	102	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.5	272.1
Ohio.....	124	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	95.5
Indiana.....	31	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	17.1
Illinois.....	121	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	86.9
Michigan.....	77	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	67.8
Wisconsin.....	35	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.8
West North Central Div..	93	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	12.2
Minnesota.....	18	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Iowa.....	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri.....	38	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	19.6
Kansas.....	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Region.....	362	63	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.9	99.1
South Atlantic Division.	150	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	28.5
Maryland.....	23	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	9.5
Virginia.....	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina.....	29	4	.8	5.6	.5	.9	2.1	14.6	12.1	26.4	.8	.6	8.3
Georgia.....	30	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida.....	48	3	.2	1.9	.2	.3	.8	4.3	4.6	8.7	.3	.4	3.4
East South Central Div..	35	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	29.1
Tennessee.....	16	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Div..	177	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	41.5
Louisiana.....	20	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas.....	128	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	31.4
West Region.....	260	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	60.0
Mountain Division.....	46	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	6.3
Colorado.....	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah.....	9	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division.....	214	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	53.7
Oregon.....	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	187	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	52.3

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Adhesives and sealants (SIC 2891)	Explosives (SIC 2892)	Printing ink (SIC 2893)	Carbon black (SIC 2895)	Chemical prepara- tions, n.e.c. (SIC 2899)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT .	89	² 92	95	² 95	84
COVERAGE RATIO ¹DO . .	82	² 95	93	² 95	75
ESTABLISHMENTS, TOTALNUMBER .	463	93	407	37	1 606
WITH 1 TO 19 EMPLOYEESDO . .	276	42	262	4	1 246
WITH 20 TO 99 EMPLOYEESDO . .	154	24	125	22	281
WITH 100 EMPLOYEES OR MOREDO . .	33	27	20	11	79
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	14.9	18.9	9.6	2.9	37.1
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS .	148.2	181.6	99.3	31.9	356.0
PRODUCTION WORKERS:					
AVERAGE FOR YEAR1,000 .	8.5	13.5	5.8	2.3	22.6
MARCHDO . .	8.2	13.2	5.8	2.3	22.4
MAYDO . .	8.4	13.3	5.7	2.3	22.7
AUGUSTDO . .	8.7	13.8	5.7	2.3	22.7
NOVEMBERDO . .	8.7	13.6	5.7	2.3	22.6
MAN-HOURSMILLIONS .	17.6	26.1	12.1	5.1	43.9
JANUARY-MARCHDO . .	4.3	6.5	3.1	1.3	10.8
APRIL-JUNEDO . .	4.4	6.4	3.0	1.3	10.9
JULY-SEPTEMBERDO . .	4.4	6.6	3.0	1.3	10.9
OCTOBER-DECEMBERDO . .	4.5	6.5	3.0	1.3	11.2
WAGESMILLION DOLLARS .	68.8	116.8	49.8	24.1	176.0
COST OF MATERIALS, ETC., TOTALDO . .	504.0	123.4	281.7	88.9	1 086.4
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMEDDO . .	458.8	90.0	262.1	78.3	913.4
COST OF RESALESDO . .	29.5	(D)	14.3	(D)	125.4
FUELS CONSUMEDDO . .	7.7	17.1	1.6	5.7	25.5
PURCHASED ELECTRIC ENERGYDO . .	5.3	7.0	3.1	4.8	12.1
CONTRACT WORKDO . .	2.8	(D)	.2	(D)	9.8
VALUE OF SHIPMENTS, INCLUDING RESALESDO . .	928.0	408.7	508.4	227.0	2 202.3
VALUE OF RESALESDO . .	42.7	(D)	21.5	(D)	162.6
VALUE ADDED BY MANUFACTUREDO . .	426.6	285.5	232.0	137.6	1 124.7
MANUFACTURERS' INVENTORIES:					
BEGINNING OF YEAR, TOTALDO . .	91.1	39.5	57.3	19.0	244.7
FINISHED PRODUCTSDO . .	45.8	16.7	22.1	12.6	121.0
WORK IN PROCESSDO . .	6.6	6.4	1.3	(Z)	31.4
MATERIALS, SUPPLIES, FUEL, ETC.DO . .	38.7	16.6	34.0	6.3	90.3
END OF YEAR, TOTALDO . .	101.9	39.5	67.9	18.1	254.7
FINISHED PRODUCTSDO . .	47.3	16.7	27.1	12.1	135.2
WORK IN PROCESSDO . .	7.7	6.4	1.6	(Z)	28.0
MATERIALS, SUPPLIES, FUEL, ETC.DO . .	46.9	16.3	39.2	6.0	91.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO . .	25.5	16.0	13.1	11.9	73.0
NEW PLANT AND EQUIPMENT, TOTALDO . .	24.9	14.9	12.6	11.8	71.4
NEW STRUCTURES AND ADDITIONS TO PLANTDO . .	6.8	5.2	3.0	2.1	15.3
NEW MACHINERY AND EQUIPMENTDO . .	18.1	9.4	9.6	9.7	56.1
USED PLANT AND EQUIPMENTDO . .	.6	1.1	.5	(Z)	1.6

(D) Withheld to avoid disclosing figures for individual companies.
shown (under 50 thousand dollars or man-hours; under 50 employees).

(Z) Less than half of the unit of measurement

¹The portion of product shipments (both primary and secondary) of the industry represented by primary products.²Government-owned, privately operated establishments did not enter into the calculation of "primary product specialization ratios" or "coverage ratio" as all dollar receipts for these establishments were included in "miscellaneous receipts."³This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.⁴The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
2891-- ADHESIVES AND SEALANTS											
ESTABLISHMENTS, TOTAL.	463	14.9	148.2	8.5	17.6	68.8	426.6	504.0	928.0	24.9	101.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	106	.2	1.9	.2	.3	1.0	6.0	8.2	14.0	.8	1.6
5 TO 9 EMPLOYEES E1	85	.6	5.1	.3	.7	2.4	25.3	26.3	51.2	1.5	4.5
10 TO 19 EMPLOYEES	100	1.2	11.5	.7	1.4	5.4	37.8	53.8	90.8	3.4	8.2
20 TO 49 EMPLOYEES	100	3.1	31.4	1.8	3.8	14.6	84.9	139.9	223.7	4.6	18.7
50 TO 99 EMPLOYEES	54	3.8	36.3	2.3	4.6	17.7	110.5	114.3	224.2	6.6	26.9
100 TO 249 EMPLOYEES	29	4.4	43.3	2.5	5.4	21.5	124.9	139.3	265.2	5.8	34.1
250 TO 499 EMPLOYEES	3	1.7	18.8	.7	1.5	6.2	37.3	22.2	58.8	2.2	7.9
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	81	.2	2.0	.2	.3	1.1	5.7	6.8	12.5	.5	1.7
2892-- EXPLOSIVES											
ESTABLISHMENTS, TOTAL.	93	18.9	181.6	13.5	26.1	116.8	285.5	123.4	408.7	14.9	39.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E2	25	.1	.5	(Z)	.1	.4	1.7	2.0	3.8	.9	.4
5 TO 9 EMPLOYEES E3	10	.1	.6	(Z)	.1	.4	1.5	1.5	3.3	.2	.5
10 TO 19 EMPLOYEES E1	7	.1	1.0	.1	.1	.6	2.3	2.2	4.4	.3	.5
20 TO 49 EMPLOYEES	13	.4	3.8	.3	.5	2.1	9.9	12.2	22.2	1.0	2.6
50 TO 99 EMPLOYEES E3	11	.7	6.5	.6	1.2	4.8	16.1	12.3	28.6	6.1	3.5
100 TO 249 EMPLOYEES	8	1.2	11.9	.9	1.8	7.8	28.7	19.9	48.4	1.3	5.9
250 TO 499 EMPLOYEES	12	4.2	39.6	3.0	5.4	24.5	66.2	43.2	109.6	3.9	19.1
500 TO 999 EMPLOYEES	3	12.2	117.8	8.5	16.8	76.3	124.7	74.5	188.4	.7	8.3
1,000 TO 2,499 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	17	.1	.5	(Z)	.1	.3	1.0	.8	1.8	.2	.3
2893-- PRINTING INK											
ESTABLISHMENTS, TOTAL.	407	9.6	99.3	5.7	12.1	49.8	232.0	281.7	508.4	12.6	67.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E3	79	.2	2.1	.1	.2	1.1	7.6	8.8	16.0	2.0	1.8
5 TO 9 EMPLOYEES E1	81	.6	5.4	.3	.7	2.5	16.1	19.1	34.7	.6	3.6
10 TO 19 EMPLOYEES	102	1.4	13.5	.8	1.7	6.6	35.3	44.0	79.2	1.1	8.8
20 TO 49 EMPLOYEES	104	3.0	29.9	1.7	3.5	13.8	72.3	80.0	149.5	4.9	20.3
50 TO 99 EMPLOYEES	21	1.5	15.8	.8	1.8	7.5	35.7	41.4	76.5	1.7	9.9
100 TO 249 EMPLOYEES	17	2.2	23.7	1.5	3.1	13.5	50.3	64.7	113.8	1.3	17.7
250 TO 499 EMPLOYEES	3	.8	8.9	.5	1.0	4.8	14.8	23.8	38.6	1.1	5.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	70	.3	2.2	.2	.3	1.1	4.5	6.2	10.7	.3	1.3
2895-- CARBON BLACK											
ESTABLISHMENTS, TOTAL.	37	2.9	31.9	2.3	5.1	24.1	137.6	88.9	227.0	11.8	18.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	3	(Z)	.2	(Z)	(Z)	.2	.5	.2	.9	2.6	-
5 TO 9 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	11	.4	4.9	.3	.6	3.1	26.6	20.7	47.4	(D)	3.8
20 TO 49 EMPLOYEES	11	.7	7.2	.5	1.2	5.4	34.4	21.5	55.9	2.4	4.7
50 TO 99 EMPLOYEES	10	1.7	19.6	1.5	3.3	15.5	76.1	46.6	122.9	6.8	9.5
100 TO 249 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2899-- CHEMICAL PREPARATIONS, NEC											
ESTABLISHMENTS, TOTAL.	1 606	37.1	356.0	22.6	43.9	176.0	1 124.7	1 086.4	2 202.3	71.4	254.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	770	1.4	12.2	1.0	1.8	6.0	45.5	35.8	81.2	3.1	8.8
5 TO 9 EMPLOYEES E4	267	1.8	16.3	1.0	2.1	7.4	58.1	55.8	115.7	3.8	12.5
10 TO 19 EMPLOYEES E1	209	2.9	27.8	1.6	3.2	11.4	101.9	88.3	189.2	4.9	19.9
20 TO 49 EMPLOYEES	205	6.5	60.8	3.7	7.0	25.2	200.9	211.9	403.5	11.6	51.6
50 TO 99 EMPLOYEES	76	5.0	44.9	3.1	6.1	21.3	143.3	136.1	284.8	10.3	33.0
100 TO 249 EMPLOYEES	54	8.1	76.6	5.2	10.8	43.3	231.9	226.7	455.2	16.7	49.1
250 TO 499 EMPLOYEES	18	5.9	53.6	4.0	8.0	32.1	183.6	150.7	339.9	14.5	44.6
500 TO 999 EMPLOYEES	6	5.5	63.8	2.8	4.9	29.3	159.4	173.6	332.7	6.2	35.1
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	728	1.9	16.5	1.3	2.5	8.1	50.8	47.7	98.5	3.4	11.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
2891	ADHESIVES AND SEALANTS										
	ENTIRE INDUSTRY	463	14.9	148.2	8.5	17.6	68.8	426.6	504.0	928.0	24.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	422	12.4	123.2	7.0	14.2	55.6	350.1	403.3	751.6	20.7
28913	NATURAL BASE GLUES AND ADHESIVES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	43	1.4	13.2	1.0	2.1	8.2	38.2	45.2	85.5	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	27	.6	5.4	.4	.9	3.3	22.4	19.7	43.3	1.6
28914	SYNTHETIC RESIN AND RUBBER ADHESIVES, ALL TYPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	252	10.0	99.9	5.5	11.5	45.7	291.3	388.7	677.7	17.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	171	6.8	66.7	3.7	7.6	31.1	192.6	245.9	437.5	11.1
28915	CAULKING COMPOUNDS AND SEALANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	38	2.7	28.8	1.5	3.1	11.3	79.5	49.8	127.5	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	27	1.8	16.7	1.0	2.2	7.7	53.2	31.8	84.0	2.5
2892	EXPLOSIVES										
	ENTIRE INDUSTRY	93	18.9	181.6	13.5	26.1	116.8	285.5	123.4	408.7	14.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	91	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28921	EXPLOSIVES, EXC. GOV.-OWNED CONTRACT-OPER. PLANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	60	7.7	71.6	5.8	10.8	47.3	148.1	103.6	251.4	13.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	57	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28922	EXPLOSIVES, PROPELLANTS, ETC., GOV.-OWNED PLANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	7	11.0	108.8	7.6	15.1	68.8	135.0	18.1	153.1	(Z)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	7	11.0	108.8	7.6	15.1	68.8	135.0	18.1	153.1	(Z)
2893	PRINTING INK										
	ENTIRE INDUSTRY	407	9.6	99.3	5.7	12.1	49.8	232.0	281.7	508.4	12.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	396	9.0	92.1	5.3	11.1	45.4	217.4	261.0	473.6	10.7
28931	LETTERPRESS INKS (BLACK AND COLOR) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	75	2.3	21.9	1.4	3.0	11.2	52.4	68.0	118.4	2.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	29	.9	8.4	.6	1.3	4.3	18.7	21.9	40.3	.9
28932	LITHOGRAPHIC AND OFFSET INKS (BLACK AND COLOR) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	109	3.7	40.8	2.1	4.4	20.0	85.0	88.6	172.6	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	61	1.9	21.3	1.0	2.1	9.6	38.0	36.4	73.9	3.0
28933	GRAVURE INKS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	38	1.2	11.8	.7	1.5	6.4	30.9	48.6	78.3	.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	16	.4	4.4	.3	.6	2.3	13.0	18.3	31.0	.2
28934	FLEXOGRAPHIC INKS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	41	1.1	10.9	.6	1.3	5.5	32.9	44.6	77.0	1.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	18	.4	4.1	.2	.5	2.0	11.2	16.9	27.6	1.0
28935	PRINTING INKS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	18	.5	4.8	.3	.6	2.1	11.2	12.1	23.1	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	11	.3	3.4	.2	.4	1.4	7.3	8.2	15.4	.3
2895	CARBON BLACK										
	ENTIRE INDUSTRY	37	2.9	31.9	2.3	5.1	24.1	137.6	88.9	227.0	11.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	37	2.9	31.9	2.3	5.1	24.1	137.6	88.9	227.0	11.8
2899	CHEMICAL PREPARATIONS, NEC										
	ENTIRE INDUSTRY	1 606	37.1	356.0	22.6	43.9	176.0	1 124.7	1 086.4	2 202.3	71.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	1 513	26.9	254.0	16.5	31.6	124.1	831.7	738.5	1 559.3	59.5
28991	SALT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	28	3.7	33.1	3.1	6.8	26.5	90.6	43.4	133.7	11.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28992	FATTY ACIDS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	12	1.8	20.5	1.2	2.7	13.2	69.5	98.0	166.6	3.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	6	.4	4.7	.3	.6	2.8	15.5	24.4	38.8	1.1
28994	GELATIN, EXCEPT READY-TO-EAT DESSERTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	6	1.1	12.3	.8	1.5	7.7	27.4	28.0	55.0	4.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28995	ESSENTIAL OILS, FIREWORKS, SIZES, ETC., NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	528	24.8	242.7	13.8	26.1	105.4	813.1	801.1	1 608.3	41.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	446	16.1	155.7	8.8	16.1	63.8	551.5	507.6	1 050.2	31.1

(D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
2891	Adhesives and sealants.....1972..	928.0	782.7	98.5	46.7	89	954.3	782.7	171.6	82
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2892	Explosives.....1972..	408.6	225.3	20.6	162.8	192	237.6	225.3	12.3	195
	.....1967..	647.0	229.4	16.7	400.9	93	248.5	229.4	19.1	93
2893	Printing ink.....1972..	508.4	460.7	24.9	22.7	95	498.0	460.7	37.3	93
	.....1967..	375.6	324.4	25.0	26.2	93	342.6	324.4	18.2	95
2895	Carbon black.....1972..	227.0	(D)	-	(D)	295	227.1	(D)	(D)	295
	.....1967..	167.8	167.2	-	.5	100	168.0	(D)	(D)	(NA)
2899	Chemical preparations, n.e.c.....1972..	2,202.3	1,675.0	321.6	205.7	84	2,228.3	1,675.0	553.2	75
	.....1967..	1,381.6	1,054.2	224.6	102.7	82	1,431.6	1,054.2	377.4	74

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Government-owned, privately operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all dollar receipts for these establishments were included in "miscellaneous receipts."

²This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Adhesives and sealants (SIC 2891)	Explosives (SIC 2892)	Printing ink (SIC 2893)	Carbon black (SIC 2895)	Chemical prepara- tions, n.e.c. (SIC 2899)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	928.0	408.6	508.4	227.0	2,202.3	(X)
2891-	Adhesives and sealants.....	954.3	782.7	-	-	-	(5-10)	(100-200)
28913	Natural base glues and adhesives.....	119.5	104.3	-	-	-	-	15.2
28914	Synthetic resin and rubber adhesives, including all types of bonding and laminating adhesives.....	671.8	534.0	-	-	-	(5-10)	(100-200)
28915	Calking compounds and sealants.....	121.2	103.9	-	-	-	-	17.3
28910	Adhesives and sealants, n.s.k.....	41.7	40.5	-	-	-	(under 2)	(under 2)
2892-	Explosives.....	237.6	-	225.3	-	-	-	12.3
28921	Explosives (except government ground, contractor operated plants).....	232.8	-	220.6	-	-	-	12.3
28920	Explosives, n.s.k.....	4.7	-	4.7	-	-	-	-
2893-	Printing ink.....	498.0	-	-	460.7	-	2-5	(20-50)
28931	Letterpress inks (black and color).....	109.8	-	-	(100-200)	-	-	(under 2)
28932	Lithographic and offset inks (black and color).....	151.8	-	-	(100-200)	-	-	(10-20)
28933	Granure inks.....	82.5	-	-	(50-100)	-	-	(2-5)
28934	Flexographic inks.....	73.4	-	-	(50-100)	-	-	(under 2)
28935	Printing inks, n.e.c.....	35.2	-	-	19.2	-	2-5	(10-20)
28930	Printing inks, n.s.k.....	45.4	-	-	39.3	-	-	6.1
2895-	Carbon black (channel and furnace process only).....	227.1	-	-	-	(200-500)	-	(under 2)
2899-	Chemical preparations, n.e.c.....	2,228.2	15.2	-	-	-	1,675.0	538.0
28991	Evaporated salt (bulk, pressed blocks, and packaged).....	133.9	-	-	-	-	(100-200)	(2-10)
28992	Fatty acids.....	155.3	-	-	-	-	107.3	48.0
28994	Gelatin, except ready-to-eat desserts.....	68.2	5.5	-	-	-	45.2	17.5
28995	Essential oils, fireworks and pyrotechnics, sizes, and chemicals preparations, n.e.c.....	1,641.0	9.7	(X)	(X)	(X)	1,172.7	458.6
28990	Chemical preparations, n.s.k.....	229.8	(X)	(X)	(X)	(X)	(200-500)	(5-10)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Adhesives and sealants (SIC 2891)	Explosives (SIC 2892)	Printing ink (SIC 2893)	Carbon black (SIC 2895)	Chemical preparations, n.e.c. (SIC 2899)	Other industries
Shipments and miscellaneous receipts--Continued								
Other product shipments by 4-digit product classes:								
1476-	Rock salt.....	(X)	-	-	-	-	(over 2)	(X)
2046-	Wet corn milling.....	(X)	-	-	-	-	(10-20)	(X)
2077-	Animal and marine fats and oils.....	(X)	3.8	-	-	-	(5-10)	(X)
2795-	Lithographic platemaking services.....	(X)	-	-	(over 2)	-	-	(X)
2816-	Inorganic pigments.....	(X)	-	-	-	-	14.6	(X)
2819-	Industrial inorganic chemicals, n.e.c.....	(X)	-	-	-	-	7.7	(X)
2821-	Plastics materials and resins.....	(X)	14.3	(under 2)	-	-	11.4	(X)
2841-	Soap and other detergents.....	(X)	-	-	-	-	16.6	(X)
2842-	Polishes and sanitation goods.....	(X)	-	-	-	-	10.8	(X)
2843-	Surface active agents.....	(X)	(2-5)	-	-	-	18.9	(X)
2844-	Toilet preparations.....	(X)	-	-	-	-	(2-5)	(X)
2851-	Paints and allied products.....	(X)	18.4	-	9.1	-	10.9	(X)
2861-	Gum and wood chemicals.....	(X)	(over 2)	-	-	-	(2-5)	(X)
2865-	Cyclic crudes and intermediates.....	(X)	(under 2)	-	(over 2)	-	(under 2)	(X)
2869-	Industrial organic chemicals, n.e.c.....	(X)	15.1	(over 2)	-	-	44.9	(X)
2873-	Nitrogenous fertilizers.....	(X)	-	(over 2)	-	-	-	(X)
2879-	Agricultural chemicals, n.e.c.....	(X)	-	-	-	-	5.5	(X)
2992-	Lubricating oils and greases.....	(X)	-	-	-	-	5.1	-
3079-	Miscellaneous plastics products.....	(X)	2.1	-	-	-	(over 2)	(X)
3293-	Gaskets, packing and sealing devices.....	(X)	-	-	-	-	(over 2)	(X)
3489-	Ordnance and accessories, n.e.c.....	(X)	-	-	-	-	2.5	(X)
3569-	General industrial machinery, n.e.c.....	(X)	-	-	-	-	(10-20)	(X)
3861-	Photographic equipment and supplies.....	(X)	-	-	-	-	(over 2)	(X)
	Other secondary products.....	(X)	21.2	-	(under 2)	-	41.8	(X)
	Miscellaneous receipts.....	(X)	46.7	162.8	22.7	(under 2)	205.7	(X)
99989	Resales.....	(X)	42.7		21.5	(under 2)	162.6	(X)
99980	Other.....	(X)	1.3	162.8			16.7	(X)
930000	Contract work.....	(X)	2.7		1.3		26.4	(X)

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
Listing of other industries with over \$2 million shipments of the primary product			Listing of other industries with over \$2 million shipments of the primary product--Continued		
2891-	2075 Soybean oil mills.....	(over 2)	2899-	2795 Lithographic platemaking services.....	(over 2)
	2641 Paper coating and glazing.....	3.0		2812 Alkalies and chlorine.....	(over 2)
	2821 Plastics materials and resins.....	28.9		2819 Industrial inorganic chemicals, n.e.c....	19.1
	2841 Soap and other detergents.....	(over 2)		2821 Plastics materials and resins.....	39.9
	2842 Polishes and sanitation goods.....	4.0		2834 Pharmaceutical preparations.....	(10-20)
	2851 Paints and allied products.....	43.0		2841 Soap and other detergents.....	33.1
				2842 Polishes and sanitation goods.....	61.9
	2952 Asphalt felts and coating.....	4.5		2843 Surface active agents.....	8.8
	3041 Rubber and plastics hose and belting....	(over 2)		2844 Toilet preparations.....	8.3
	3069 Fabricated rubber products, n.e.c.....	4.8		2851 Paints and allied products.....	9.5
	3079 Miscellaneous plastics products.....	11.5		2861 Gum and wood chemicals.....	45.5
	3714 Motor vehicle parts and accessories.....	(over 2)		2865 Cyclic crudes and intermediates.....	(over 2)
	3996 Hard surface floor coverings.....	(over 2)		2869 Industrial organic chemicals, n.e.c.....	81.5
2892-	2869 Industrial organic chemicals, n.e.c.....	(over 2)		2879 Agricultural chemicals, n.e.c.....	(10-20)
				2911 Petroleum refining.....	(over 2)
2893-	2851 Paints and allied products.....	9.8		2992 Lubricating oils and greases.....	5.6
	2865 Cyclic crudes and intermediates.....	(over 2)		3069 Fabricated rubber products, n.e.c.....	(over 2)
	3579 Office machines, n.e.c.....	(over 2)		3079 Miscellaneous plastics products.....	(over 2)
	3953 Marking devices.....	3.0		3339 Primary nonferrous metals, n.e.c.....	(over 2)
2899-	2023 Condensed and evaporated milk.....	(over 2)		3483 Ammunition, except for small arms, n.e.c.	(over 2)
	2037 Frozen fruits and vegetables.....	13.6		3541 Machine tools, metal cutting types.....	(over 2)
	2079 Shortening and cooking oils.....	(over 2)		3569 General industrial machinery, n.e.c....	(over 2)
	2087 Flavoring extracts and sirups, n.e.c....	(2-5)		3623 Welding apparatus, electric.....	(over 2)
	2631 Paperboard mills.....	(over 2)		3861 Photographic equipment and supplies.....	(over 2)
				3951 Pens and mechanical pencils.....	2.2

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2891- --	ADHESIVES AND SEALANTS, TOTAL.....	.....	(X)	954.3	(X)	547.7
28913 --	Natural Base Glues and Adhesives.....	.....	(X)	¹ 119.5	(X)	¹ 98.4
	Animal glues:					
28913 11	Hide (dry forms).....	Million lb....	38.7	12.3	75.3	18.6
28913 14	Bone, green and extracted (dry forms).....	...do.....	19.6	4.3	38.9	6.8
28913 26	Flexible, nonwarp, and liquid glue (not glue stock).....	...do.....	49.4	14.7	(S)	9.4
	Protein adhesives:					
28913 41	Casein adhesives.....	...do.....	43.8	8.3	43.2	7.9
28913 49	Other, including blood, fish, soybean, albumen, etc.....	...do.....	(S)	3.8	² 74.6	² 8.5
	Vegetable adhesives:					
28913 51	Dextrines.....	...do.....	186.6	29.8	167.9	20.5
28913 55	Starches.....	...do.....	99.2	15.8	46.9	6.8
28913 78	Bituminous adhesives, asphaltic and coal tar.....	...do.....			(S)	8.3
28913 75	Other natural base glues and adhesives made from natural gums, shellac, silicates, lacquers, oleoresinous varnishes, etc., except rubber.....	...do.....	(S)	30.7	(S)	³ 11.6
28913 00	Natural base glues and adhesives, n.s.k.....	.....	(X)	(⁴)	(X)	(⁴)
28914 --	Synthetic Resin and Rubber Adhesives, Including All Types of Bonding and Laminating Adhesives:.....	.....	(X)	671.8	(X)	356.6
28914 11	Epoxy adhesives.....	Million lb....	73.8	48.2		
	Phenolics and derivatives adhesives:					
28914 23	Phenolics and modified phenolics.....	...do.....	600.6	45.9		
28914 25	Resorcinol and modified resorcinol.....	...do.....	(S)	7.5		
28914 33	Urea and modified urea.....	...do.....	(S)	44.2		
	Vinyl type adhesives:					
	Polyvinyl acetate:					
28914 41	Latex type.....	...do.....	514.3	101.9		
28914 43	Solvent type.....	...do.....	(S)	35.3		
28914 45	Polyvinyl chloride and copolymers.....	...do.....	105.2	14.1	(X)	² ³ 197.7
28914 47	Other vinyl polymer type adhesives.....	...do.....	108.6	32.6		
28914 51	Cellulosic type adhesives, nitrocellulose and other.....	...do.....	(D)	(D)		
28914 53	Acrylic adhesives.....	...do.....	(S)	19.8		
28914 55	Polyester adhesives.....	...do.....	(D)	(D)		
28914 61	Polyamide adhesives.....	...do.....	(D)	(D)		
28914 65	Hot melt adhesives, including nylon, polyolefin, and other hot melts.....	...do.....	81.9	27.6		
28914 71	Adhesive films, all types, including pressure sensitive structural and nonstructural adhesive films.....	...do.....	(S)	18.3		
28914 48	Rubber and synthetic resin combinations.....	...do.....	(S)	84.6	(S)	70.4
	Rubber cement, for sale as such:					
28914 81	Latex type.....	Million gal....	21.9	26.9	(S)	33.3
28914 83	Solvent type.....	...do.....	65.1	66.6	(S)	34.1
28914 00	Synthetic resins and rubber adhesives, n.s.k.....	.....	(X)	⁴ 65.2	(S)	⁴ 21.1
28915 --	Calking Compounds and Sealants.....	.....	(X)	¹ 121.2	(X)	¹ 68.3
	Sealants, natural base:					
28915 54	Calks, modified and unmodified oil base.....	.....	(X)	11.0		
28915 55	Bituminous base (coal tar or asphalt).....	.....	(X)	5.0		
	Sealants, synthetic base:					
28915 56	General performance sealants (PVAC, butyl, vinyl, acrylic, neoprene, etc.).....	.....	(X)	24.9	(S)	68.3
28915 57	Special performance sealants (epoxy, urethane, polysulfide, silicone, etc.).....	.....	(X)	70.2		
28915 58	Preformed tapes (butyl, polybutene, polyisobutylene, etc.).....	.....	(X)	10.2		
28915 00	Calking compounds and sealants, n.s.k.....	.....	(X)	(⁵)	(X)	(⁵)
28910 00	Adhesives and sealants, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	29.2	(X)	18.7
28910 02	Adhesives and sealants, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	12.5	(X)	5.7

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2892- --	EXPLOSIVES, TOTAL.....		(X)	237.6	(X)	248.5 ^e
28921 --	Explosives, Propellants and Blasting Accessories (Except Government-Owned, Contractor-Operated Plants).....		(X)	232.8	(X)	229.8
28921 13	Explosives: Permissibles (approved by Bureau of Mines for underground coal mining).....	Million lb....	(S)	(⁶)	237.5	42.0
28921 15	Dynamites (nonpermissible).....	..do.....	266.8	52.8	(⁷)	(⁷)
28921 17	Ammonium nitrate, fuel sensitized, except slurry.....	..do.....	556.8	24.3	434.4	26.4
28921 18	Slurry (all types).....	..do.....	164.2	20.9		
28921 27	Other industrial explosives, including black blasting powder, shaped charges, liquid oxygen explosives, nitroglycerin sold as such, etc.....		(X)	⁶ 23.8	(X)	81.7
28921 33	Propellants, including smokeless and black powder.....		(X)	28.0		
28921 41	Blasting accessories: Safety fuse.....		(X)	(⁸)	(X)	(⁸)
28921 43	Detonators: Blasting caps, electric, delay.....	Million units.	42.3	16.1	48.8	18.5
28921 45	Blasting caps, electric, except delay.....	..do.....	43.2	14.0	47.4	15.4
28921 47	Blasting caps, except electric.....	..do.....	(X)	(⁸)	72.5	1.9
28921 51	Blasting fuse.....	..do.....	(X)	(⁸)	(X)	(⁸)
28921 61	Other blasting accessories (squibs, ignitors, boosters, etc.)..	..do.....	(X)	⁸ 18.3	(X)	⁸ 28.4
28921 71	Other explosives, including military detonators, jet starters, fuse and explosive assemblies, etc.....		(X)	17.9	(X)	15.6
28921 00	Explosives (except government-owned, contractor-operated plants, n.s.k.).....		(X)	16.7	(NA)	(NA)
28920 00	Explosives, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	2.9	(X)	18.6
28920 02	Explosives, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	1.8	(X)	.1
2893- --	PRINTING INK, TOTAL.....		(X)	498.0	(X)	342.6
28931 --	Letterpress Inks (Black and Color).....	Million lb....	(NA)	109.8	(NA)	99.9
28931 05	News inks.....	..do.....	(S)	46.6	(S)	37.8
28931 06	Publication inks.....	..do.....	(S)	20.6	(S)	22.5
28931 15	Packaging inks.....	..do.....	34.6	27.5	36.8	29.3
28931 19	Other letterpress inks.....	..do.....	10.9	15.0	11.3	10.3
28931 00	Letterpress inks, n.s.k.....	..do.....	(X)	-	(X)	-
28932 --	Lithographic and Offset Inks (Black and Color).....	Million lb....	(NA)	151.8	80.1	86.2
28932 31	News inks.....	..do.....	(S)	26.3	31.9	27.3
28932 32	Publication inks.....	..do.....	54.1	54.3	12.7	14.0
28932 35	Packaging inks.....	..do.....	20.5	29.8	19.8	21.9
28932 39	Other lithographic and offset inks.....	..do.....	26.3	41.4	15.8	23.0
28932 00	Lithographic and offset inks, n.s.k.....	..do.....	(X)	-	(X)	-
28933 --	Gravure Inks.....	Million lb....	251.8	82.5	173.3	42.3
28933 43	Packaging inks.....	..do.....	62.4	36.3	41.4	19.2
28933 45	Publication inks.....	..do.....	152.9	33.3	106.8	17.8
28933 49	Other gravure inks.....	..do.....	36.5	12.9	25.1	5.3
28933 00	Gravure inks, n.s.k.....	..do.....	(X)	-	(X)	-
28934 --	Flexographic Inks.....	Million lb....	100.7	73.4	73.4	42.0
28934 82	Packaging inks: Paper and board.....	..do.....				
28934 83	Film and foil.....	..do.....	100.7	73.4	73.4	42.0
28934 84	Other flexographic inks.....	..do.....				
28934 00	Flexographic inks, n.s.k.....	..do.....	(X)	-	(X)	-
28935 --	Printing Inks, N.E.C.....	Million lb....	(X)	35.2	(X)	40.7
28935 71	Textile printing inks.....	..do.....	26.8	16.8	26.7	18.0
28935 85	Screen printing inks.....	..do.....	(S)	9.3	(S)	8.3
28935 98	Other printing inks, including stencil inks.....	..do.....	18.8	9.1	27.8	14.4
28935 00	Printing inks, n.e.c., n.s.k.....	..do.....	(X)	-	(X)	-
28930 00	Printing inks, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	34.7	(X)	28.5
28930 02	Printing inks, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	10.7	(X)	3.0

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
28950 11	CARBON BLACK (channel and furnace process only) ⁹	Million lb.	3,209.6	3,191.6	227.1	2,440.0	2,415.7	167.8
2899- --	CHEMICAL PREPARATIONS, N.E.C., TOTAL.....		(X)	(X)	2,228.2	(X)	(X)	^{10 11} 1,559.6
28991 11	Evaporated salt (bulk, pressed blocks, and packaged) ¹²	Mil.s.tons.	5.9	5.9	133.9	5.4	5.4	111.6
28992 --	Fatty Acids.....		(X)	(X)	155.3	(X)	(X)	111.1
	Saturated acids:							
28992 11	Stearic acid (40-50 percent stearic content).....	Million lb.	105.3	104.6	17.3	77.9	75.6	11.9
	Hydrogenated animal and vegetable acids:							
28992 23	Hydrogenated fatty acids having a maximum titer of 60°C and a minimum I.V. of 5.....	..do....	268.9	267.9	40.9	200.4	205.9	24.0
28992 25	Hydrogenated fatty acids having a minimum titer of 57°C and a maximum I.V. under 5.....	..do....						
28992 27	High palmitic (over 60% palmitic--I.V. maximum 12).....	..do....						
28992 31	Hydrogenated fish and marine mammal fatty acids.....	..do....						
28992 53	Coconut-type acids, I.V. 5 and over, including palm kernel and babassu, and hydrogenated coconut acid.....	..do....	48.3	48.3	7.5	54.6	39.5	6.7
28992 55	Fractionated short-chain fatty acids, I.V. below 5, such as caprylic, capric, lauric, and myristic.....	..do....	36.6	30.0	6.8	(S)	12.5	3.2
	Unsaturated acids:							
28992 61	Oleic acid, including white oleic and red oil.....	..do....	(S)	77.4	14.6	(S)	75.1	12.9
28992 83	Other unsaturated fatty acids, including animal fatty acids other than oleic (I.V. 36 to 80), vegetable or marine (I.V. maximum 115), and other unsaturated fatty acids (I.V. 116 and over).....	..do....	104.5	104.8	16.7	(S)	181.9	20.8
	Tall oil fatty acids:							
28992 92	Tall oil fatty acids containing less than 2% rosin acids and more than 95% fatty acids.....	..do....	210.7	207.8	19.7	(S)	372.0	28.9
28992 94	Tall oil fatty acids containing 2% rosin acids or more.....	..do....	234.9	230.6	21.7			
28992 00	Fatty acids, n.s.k.....	..do....	(X)	(X)	10.1	(X)	(X)	2.7
28994 --	Gelatin, Except Read-To-Eat Desserts.....		(X)	(X)	68.2	(X)	(X)	66.2
28994 11	Food grade (excluding pharmaceutical and photographic).....	Million lb.	38.6	38.6	31.0	(X)	43.2	35.3
28994 31	Pharmaceutical grade (except unfilled capsules).....	..do....	(S)	(S)	16.6	(X)	(S)	15.1
28994 51	Photographic grade.....	..do....	(D)	(D)	(D)	(X)	(X)	(D)
28994 71	Technical (inedible) grade.....	..do....	(D)	(D)	(D)	(X)	(X)	(D)
28994 98	Other gelatin products, except ready-to-eat desserts, including unfilled capsules and gelatin sheets for theatrical use.....	..do....	(D)	(D)	(D)	(X)	(X)	(D)
28994 00	Gelatin, except ready-to-eat desserts, n.s.k.....	..do....	(X)	(X)	(D)	(X)	(X)	-
28995 --	Essential Oils, Fireworks and Pyrotechnics, Sizes, and Chemical Preparations, N.E.C.....		(X)	(X)	1,641.0	(X)	(X)	^{10 12} 1,146.1
	Essential oils, unblended (natural):							
	Citrus oils:							
28995 11	Orange.....	Million lb.	(S)	(S)	10.0	(S)	(S)	6.5
28995 12	Lemon.....	..do....	7.4	7.4	32.3	(S)	2.6	10.9
28995 13	Other.....	..do....	(S)	(S)	5.9	(S)	1.6	5.6
28995 15	Peppermint oils.....	..do....	3.7	3.3	15.8	(S)	2.2	15.5
28995 19	Other natural essential oils.....	..do....	(S)	(S)	21.3	(S)	3.4	18.3
28995 29	Fireworks and pyrotechnics (including flares, jet fuel igniters, railroad torpedoes, toy pistol caps, etc.).....	..do....	(S)	(S)	39.6	(S)	(S)	66.4
	Chemical preparations, n.e.c.:							
	Automotive chemicals:							
	Antifreeze preparations:							
28995 35	Permanent type ¹⁴.....	..do....	(S)	(S)	123.3	(X)	(X)	131.9
28995 36	Other.....	..do....	(S)	(S)	3.9			
28995 37	Other automotive chemicals (including battery acid, deicing fluid, carbon removing solvents, etc.).....	..do....	(X)	(X)	89.5			
28995 39	Concrete curing and floor hardening materials.....	Million lb.	(S)	(S)	46.6	(S)	174.4	28.3
28995 41	Drilling mud materials, mud thinners, thickeners, and purifiers.....	..do....	(S)	(S)	61.2	(S)	(S)	17.6
28995 49	Foundry supplies, chemical (including binders, core oils, core wash, etc.).....	..do....	(X)	(X)	43.3	(X)	(X)	38.3
28995 53	Household tints and dyes.....	Million lb.	⁽¹⁵⁾	⁽¹⁵⁾	⁽¹⁵⁾	⁽¹⁵⁾	⁽¹⁵⁾	⁽¹⁵⁾
28995 55	Insulation products (heat, electrical, and other).....	..do....	(X)	(X)	8.3	(X)	(X)	16.4
28995 59	Metal-treating compounds (nonoil-base) for nitriding, pickling, drawing, and cutting.....	..do....	(X)	(X)	68.8	(X)	(X)	53.4
28995 61	Oil-treating compounds (nonoil-base).....	..do....	(X)	(X)	50.4	(X)	(X)	43.6
	Sizes:							
28995 63	Rosin sizes.....	Million lb.	766.9	741.6	96.1	(X)	365.3	43.6
28995 65	Other, including dextrin sizes.....	..do....				(X)	147.0	18.2
28995 72	Inks (writing and stamp pad ink, including indelible ink and marking fluid, but excluding drawing inks).....	Million gal.	(S)	(S)	17.4	(S)	(S)	9.3

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972		1967	
			Production for all purposes	Total product shipments including interplant transfers	Production for all purposes	Total product shipments including interplant transfers
				Quantity Value (million dollars)		Quantity Value (million dollars)
2899- --	CHEMICAL PREPARATIONS, N.E.C.--Continued					
28995 --	Essential Oils, Fireworks and Pyrotechnics, Sizes, and Chemical Preparations, N.E.C.--Continued					
	Chemical preparations, n.e.c.--Continued					
	Water-treating compounds:					
28995 73	Swimming pool chemical preparations.....	.....	(X)	(X)	(16)	(16)
28995 77	Boiler compounds.....	Millionlb.	(X)	311.1	(16)	(16)
28995 79	Other water softening compounds.....	do.	(S)	228.7	(S)	416.5
28995 81	Waterproofing compounds (electrical, leather, masonry, textile, etc.).....	.....	(X)	(S)	(X)	(X)
28995 83	Embalming chemicals.....	.....	(X)	(X)	(10)	(10)
28995 87	Vitreous enamel (frit).....	Millionlb.	235.9	230.6	200.7	199.9
28995 91	Plating compounds.....	do.	(S)	(S)	(S)	(S)
28995 93	Lighter fluids (cigarette, charcoal, etc.).....	Milliongal.	(S)	(S)	(S)	(S)
28995 95	Waxes (animal, vegetable, mineral, including blends), excluding pure petroleum waxes.....	.....	(X)	(X)	(X)	(X)
28995 98	Other industrial chemical specialties, including fluxes and plastic wood preparations.....	.....	(X)	(X)	(X)	15 16302.1
28995 00	Essential oils, fireworks and pyrotechnics, sizes, and chemical preparations, n.e.c., n.s.k.....	.....	(X)	(X)	(X)	(X)
28990 00	Chemical preparations, n.e.c., n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	(X)	(X)	(X)
28990 02	Chemical preparations, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	(X)	(X)	(X)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹This product class total for 1972 and 1967 does not include the "n.s.k." product code ending with "00." See footnotes 4 and 5.

²For 1967, soybean adhesives (code 28911 43 in 1967) were combined with "other formulated and prepared adhesives" (code 28911 79 in 1967), and are now classified in product class 28914 --.

³For 1967, mucilage (code 28911 77 in 1967) was combined with "other formulated and prepared adhesives" (code 28911 79 in 1967), now classified in product class 28914 --.

⁴Due to 1972 revisions in the Standard Industrial Classification product classes, separate totals for n.s.k. codes 28913 00 and 28914 00 are unavailable. For 1972 and 1967, the value of 28913 00 is included with the total for 28194 00.

⁵Due to 1972 revisions in the Standard Industrial Classification product classes, the total for n.s.k. code 28915 00 is unavailable. For 1972 and 1967, it is included in the total for n.s.k. code 28518 00.

⁶Code 28921 13 combined with 28921 27.

⁷Total for 1967 is included in code 28921 27, other industrial explosives.

⁸For 1972, data for product codes 28921 41, 28921 47, 28921 51 are combined with 28921 61. For 1967, data for product codes 28921 41 and 28921 51 are combined with 28921 61.

⁹For additional detail on the production and shipments of channel and furnace carbon black, see the "Minerals Yearbook" published by the Bureau of Mines, Department of the Interior.

¹⁰Total for 1967 does not include value for code 28995 83, which was part of code 39943 98 in 1967.

¹¹Total for 1967 was revised to include values for gelatin, except ready-to-eat desserts (product class 28994), and values for sizes (product codes 28995 63 and 28995 65).

¹²For 1972, includes between 50 and 100 thousand tons of evaporated salt valued at less than \$5 million and shipped by establishments classified in the mineral industries. Comparable 1967 data are also between 50 and 100 thousand tons valued at less than \$5 million. For annual information on evaporated salt, rock salt, and salt in brine, see Bureau of Mines "Minerals Yearbook."

¹³Total for 1967 revised to include values for sizes (product codes 28995 63 and 28995 65).

¹⁴Excludes unspecified amount of permanent-type antifreeze preparations classified as product code 28692 13, acyclic organic chemicals.

¹⁵Product code 28995 53 included in code 28995 98 for 1972 and 1967.

¹⁶Product code 28995 73 included in code 28995 98 for 1967.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
NATURAL BASE GLUES AND ADHESIVES (28913)			SYNTHETIC RESIN AND RUBBER ADHESIVES, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (28914)--Continued		
United States.....	119.5	(NA)	South Region--Continued		
Northeast Region.....	46.7	(NA)	East South Central Division.....	27.8	(NA)
New England Division.....	13.4	(NA)	Kentucky.....	BB	(NA)
Maine.....	BB	(NA)	Tennessee.....	19.7	(NA)
Massachusetts.....	8.5	(NA)	Alabama.....	BB	(NA)
Connecticut.....	AA	(NA)	West South Central Division.....	23.6	(NA)
Middle Atlantic Division.....	33.2	(NA)	Arkansas.....	AA	(NA)
New York.....	22.0	(NA)	Louisiana.....	EE	(NA)
New Jersey.....	6.5	(NA)	Texas.....	9.9	(NA)
Pennsylvania.....	4.8	(NA)			
North Central Region.....	39.7	(NA)	West Region.....	118.3	(NA)
East North Central Division.....	36.0	(NA)	Mountain Division.....	AA	(NA)
Ohio.....	5.7	(NA)	Montana.....	AA	(NA)
Illinois.....	22.8	(NA)	Pacific Division.....	GG	(NA)
Michigan.....	1.3	(NA)	Washington.....	EE	(NA)
Wisconsin.....	BB	(NA)	Oregon.....	39.2	(NA)
West North Central Division.....	3.7	(NA)	California.....	67.2	(NA)
Iowa.....	AA	(NA)			
Missouri.....	AA	(NA)	CALKING COMPOUNDS AND SEALANTS (28915)		
South Region.....	22.2	(NA)	United States.....	121.2	(NA)
South Atlantic Division.....	16.2	(NA)	Northeast Region.....	21.9	(NA)
Maryland.....	BB	(NA)	New England Division.....	BB	(NA)
North Carolina.....	BB	(NA)	Connecticut.....	AA	(NA)
South Carolina.....	CC	(NA)	Middle Atlantic Division.....	EE	(NA)
Georgia.....	1.9	(NA)	New Jersey.....	12.4	(NA)
East South Central Division.....	AA	(NA)	Pennsylvania.....	6.2	(NA)
Tennessee.....	AA	(NA)			
West South Central Division.....	BB	(NA)	North Central Region.....	55.0	(NA)
Louisiana.....	BB	(NA)	East North Central Division.....	37.1	(NA)
Texas.....	AA	(NA)	Ohio.....	31.4	(NA)
West Region.....	11.0	(NA)	Illinois.....	3.6	(NA)
Pacific Division.....	EE	(NA)	Michigan.....	AA	(NA)
Washington.....	2.0	(NA)	West North Central Division.....	17.9	(NA)
Oregon.....	AA	(NA)	Missouri.....	EE	(NA)
California.....	7.2	(NA)			
SYNTHETIC RESIN AND RUBBER ADHESIVES, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (28914)			South Region.....	36.6	(NA)
United States.....	671.8	(NA)	South Atlantic Division.....	6.6	(NA)
Northeast Region.....	214.7	(NA)	Georgia.....	5.9	(NA)
New England Division.....	89.0	(NA)	East South Central Division.....	FF	(NA)
Vermont.....	BB	(NA)	Kentucky.....	FF	(NA)
Massachusetts.....	68.9	(NA)	West South Central Division.....	BB	(NA)
Rhode Island.....	AA	(NA)	Texas.....	BB	(NA)
Connecticut.....	EE	(NA)			
Middle Atlantic Division.....	125.7	(NA)	West Region.....	7.7	(NA)
New York.....	51.5	(NA)	Pacific Division.....	CC	(NA)
New Jersey.....	45.5	(NA)	California.....	CC	(NA)
Pennsylvania.....	28.7	(NA)			
North Central Region.....	229.0	(NA)	EXPLOSIVES (EXCEPT GOVERNMENT-OWNED, CONTRACTOR-OPERATED PLANTS) (28921)		
East North Central Division.....	202.1	(NA)	United States.....	232.8	(NA)
Ohio.....	68.8	(NA)	Northeast Region.....	76.2	(NA)
Indiana.....	5.3	(NA)	New England Division.....	EE	(NA)
Illinois.....	78.3	(NA)	Connecticut.....	EE	(NA)
Michigan.....	41.1	(NA)	Middle Atlantic Division.....	GG	(NA)
Wisconsin.....	8.5	(NA)	New York.....	CC	(NA)
West North Central Division.....	26.9	(NA)	New Jersey.....	FF	(NA)
Minnesota.....	BB	(NA)	Pennsylvania.....	34.6	(NA)
Missouri.....	19.3	(NA)			
Kansas.....	3.5	(NA)	North Central Region.....	64.9	(NA)
South Region.....	109.8	(NA)	East North Central Division.....	27.7	(NA)
South Atlantic Division.....	58.4	(NA)	Ohio.....	EE	(NA)
Delaware.....	AA	(NA)	Indiana.....	BB	(NA)
Maryland.....	CC	(NA)	Illinois.....	EE	(NA)
Virginia.....	AA	(NA)	West North Central Division.....	37.2	(NA)
North Carolina.....	13.7	(NA)	Minnesota.....	EE	(NA)
South Carolina.....	3.5	(NA)	Missouri.....	FF	(NA)
Georgia.....	26.5	(NA)			
Florida.....	2.5	(NA)	South Region.....	54.6	(NA)
			South Atlantic Division.....	FF	(NA)
			West Virginia.....	FF	(NA)
			Florida.....	CC	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
EXPLOSIVES (EXCEPT GOVERNMENT-OWNED, CONTRACTOR-OPERATED PLANTS) (28921)--Continued			LITHOGRAPHIC AND OFFSET INKS (BLACK AND COLOR) (28932)--Continued		
South Region--Continued			South Region.....	21.4	(NA)
East South Central Division.....	17.2	(NA)	South Atlantic Division.....	14.5	(NA)
Kentucky.....	BB	(NA)	District of Columbia.....	CC	(NA)
Tennessee.....	BB	(NA)	North Carolina.....	AA	(NA)
Alabama.....	EE	(NA)	Georgia.....	2.9	(NA)
West South Central Division.....	CC	(NA)	Florida.....	2.4	(NA)
Arkansas.....	BB	(NA)	East South Central Division.....	3.0	(NA)
Texas.....	BB	(NA)	Tennessee.....	1.5	(NA)
West Region.....	37.2	(NA)	West South Central Division.....	3.9	(NA)
Mountain Division.....	15.4	(NA)	Texas.....	2.3	(NA)
Colorado.....	BB	(NA)	West Region.....	16.7	(NA)
Arizona.....	CC	(NA)	Pacific Division.....	16.1	(NA)
Utah.....	AA	(NA)	California.....	15.0	(NA)
Pacific Division.....	21.8	(NA)			
Washington.....	CC	(NA)	GRAVURE INKS (28933)		
California.....	EE	(NA)	United States.....	82.5	(NA)
LETTERPRESS INKS (BLACK AND COLOR) (28931)			Northeast Region.....	27.0	(NA)
United States.....	109.8	(NA)	Middle Atlantic Division.....	26.1	(NA)
Northeast Region.....	35.3	(NA)	New York.....	AA	(NA)
New England Division.....	1.7	(NA)	New Jersey.....	16.0	(NA)
Massachusetts.....	1.4	(NA)	Pennsylvania.....	CC	(NA)
Middle Atlantic Division.....	33.6	(NA)	North Central Region.....	36.8	(NA)
New York.....	6.1	(NA)	East North Central Division.....	34.1	(NA)
New Jersey.....	20.4	(NA)	Ohio.....	6.1	(NA)
Pennsylvania.....	7.1	(NA)	Illinois.....	25.1	(NA)
North Central Region.....	46.8	(NA)	Wisconsin.....	1.9	(NA)
East North Central Division.....	42.3	(NA)	West North Central Division.....	2.7	(NA)
Ohio.....	13.8	(NA)	Missouri.....	2.7	(NA)
Indiana.....	AA	(NA)	South Region.....	13.5	(NA)
Illinois.....	21.6	(NA)	South Atlantic Division.....	7.3	(NA)
Michigan.....	3.2	(NA)	North Carolina.....	3.6	(NA)
Wisconsin.....	AA	(NA)	Georgia.....	AA	(NA)
West North Central Division.....	4.4	(NA)	East South Central Division.....	CC	(NA)
Missouri.....	4.0	(NA)	Kentucky.....	BB	(NA)
South Region.....	16.6	(NA)	West Region.....	5.2	(NA)
South Atlantic Division.....	6.5	(NA)	Pacific Division.....	BB	(NA)
District of Columbia.....	AA	(NA)	California.....	4.1	(NA)
Georgia.....	2.0	(NA)			
Florida.....	2.3	(NA)	FLEXOGRAPHIC INKS (28934)		
East South Central Division.....	2.6	(NA)	United States.....	73.4	(NA)
Tennessee.....	1.5	(NA)	Northeast Region.....	19.0	(NA)
West South Central Division.....	7.6	(NA)	Middle Atlantic Division.....	EE	(NA)
Oklahoma.....	BB	(NA)	New York.....	AA	(NA)
Texas.....	4.4	(NA)	New Jersey.....	12.6	(NA)
West Region.....	11.1	(NA)	Pennsylvania.....	4.8	(NA)
Pacific Division.....	EE	(NA)	North Central Region.....	30.1	(NA)
California.....	9.8	(NA)	East North Central Division.....	26.6	(NA)
LITHOGRAPHIC AND OFFSET INKS (BLACK AND COLOR) (28932)			Ohio.....	4.8	(NA)
United States.....	151.8	(NA)	Indiana.....	AA	(NA)
Northeast Region.....	42.2	(NA)	Illinois.....	15.5	(NA)
New England Division.....	3.9	(NA)	Wisconsin.....	4.0	(NA)
Massachusetts.....	2.1	(NA)	West North Central Division.....	3.5	(NA)
Connecticut.....	AA	(NA)	Missouri.....	BB	(NA)
Middle Atlantic Division.....	38.3	(NA)	South Region.....	13.1	(NA)
New York.....	12.3	(NA)	South Atlantic Division.....	9.3	(NA)
New Jersey.....	16.5	(NA)	Maryland.....	AA	(NA)
Pennsylvania.....	9.5	(NA)	North Carolina.....	BB	(NA)
North Central Region.....	71.6	(NA)	Georgia.....	4.1	(NA)
East North Central Division.....	63.3	(NA)	West South Central Division.....	BB	(NA)
Ohio.....	16.9	(NA)	Texas.....	2.4	(NA)
Indiana.....	1.9	(NA)	West Region.....	11.3	(NA)
Illinois.....	37.1	(NA)	Pacific Division.....	EE	(NA)
Michigan.....	2.7	(NA)	Oregon.....	BB	(NA)
Wisconsin.....	4.7	(NA)	California.....	8.5	(NA)
West North Central Division.....	8.3	(NA)			
Minnesota.....	3.8	(NA)			
Missouri.....	4.5	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PRINTING INKS, N.E.C. (28935)			GELATIN, EXCEPT READY-TO-EAT DESSERTS (28994)		
United States.....	35.2	(NA)	United States.....	68.2	(NA)
Northeast Region.....	23.4	(NA)	Northeast Region.....	43.7	(NA)
Middle Atlantic Division.....	FF	(NA)	New England Division.....	FF	(NA)
New York.....	AA	(NA)	Massachusetts.....	FF	(NA)
New Jersey.....	20.9	(NA)	Middle Atlantic Division.....	CC	(NA)
North Central Region.....	9.0	(NA)	New York.....	2.7	(NA)
East North Central Division.....	CC	(NA)	New Jersey.....	BB	(NA)
Illinois.....	6.7	(NA)	North Central Region.....	FF	(NA)
West North Central Division.....	AA	(NA)	East North Central Division.....	FF	(NA)
Missouri.....	AA	(NA)	Indiana.....	EE	(NA)
			Illinois.....	CC	(NA)
SALT (28991)			Wisconsin.....	BB	(NA)
United States.....	133.9	(NA)	West North Central Division.....	AA	(NA)
Northeast Region.....	21.3	(NA)	Iowa.....	AA	(NA)
Middle Atlantic Division.....	FF	(NA)	West Region.....	AA	(NA)
New York.....	FF	(NA)	Pacific Division.....	AA	(NA)
North Central Region.....	71.2	(NA)	ESSENTIAL OILS, FIREWORKS AND PYROTECHNICS, SIZES, AND CHEMICAL PREPARATIONS, N.E.C. (28995)		
East North Central Division.....	51.8	(NA)	United States.....	1,641.0	(NA)
Ohio.....	FF	(NA)	Northeast Region.....	404.8	(NA)
Michigan.....	FF	(NA)	New England Division.....	75.4	(NA)
West North Central Division.....	19.4	(NA)	New Hampshire.....	BB	(NA)
Missouri.....	AA	(NA)	Massachusetts.....	29.7	(NA)
Kansas.....	EE	(NA)	Connecticut.....	40.3	(NA)
South Region.....	10.5	(NA)	Middle Atlantic Division.....	329.4	(NA)
West South Central Division.....	10.5	(NA)	New York.....	89.8	(NA)
Louisiana.....	BB	(NA)	New Jersey.....	147.8	(NA)
Texas.....	BB	(NA)	Pennsylvania.....	91.9	(NA)
West Region.....	30.9	(NA)	North Central Region.....	667.7	(NA)
Mountain Division.....	5.4	(NA)	East North Central Division.....	533.2	(NA)
New Mexico.....	AA	(NA)	Ohio.....	124.5	(NA)
Utah.....	BB	(NA)	Indiana.....	51.2	(NA)
Pacific Division.....	25.5	(NA)	Illinois.....	175.0	(NA)
California.....	25.5	(NA)	Michigan.....	144.5	(NA)
FATTY ACIDS (28992)			Wisconsin.....	37.9	(NA)
United States.....	155.3	111.2	West North Central Division.....	134.5	(NA)
Northeast Region.....	EE	EE	Minnesota.....	GG	(NA)
New England Division.....	AA	(NA)	Iowa.....	BB	(NA)
Massachusetts.....	AA	(NA)	Missouri.....	57.4	(NA)
Middle Atlantic Division.....	13.1	EE	Kansas.....	CC	(NA)
New Jersey.....	EE	11.9	South Region.....	413.8	(NA)
North Central Region.....	63.0	43.8	South Atlantic Division.....	134.8	(NA)
East North Central Division.....	GG	GG	Maryland.....	19.2	(NA)
Ohio.....	FF	EE	Virginia.....	EE	(NA)
Illinois.....	26.3	18.9	West Virginia.....	EE	(NA)
West North Central Division.....	BB	BB	North Carolina.....	19.7	(NA)
Missouri.....	BB	(NA)	South Carolina.....	1.8	(NA)
Kansas.....	AA	BB	Georgia.....	54.3	(NA)
South Region.....	64.5	42.1	Florida.....	5.4	(NA)
South Atlantic Division.....	29.7	20.5	East South Central Division.....	96.3	(NA)
Virginia.....	BB	BB	Tennessee.....	21.2	(NA)
South Carolina.....	BB	AA	Alabama.....	FF	(NA)
Georgia.....	12.3	CC	Mississippi.....	EE	(NA)
Florida.....	10.4	CC	West South Central Division.....	182.7	(NA)
East South Central Division.....	EE	13.3	Louisiana.....	17.7	(NA)
Tennessee.....	EE	CC	Oklahoma.....	CC	(NA)
Alabama.....	BB	AA	Texas.....	158.5	(NA)
West South Central Division.....	EE	8.3	West Region.....	154.7	(NA)
Louisiana.....	8.6	BB	Mountain Division.....	13.7	(NA)
Texas.....	CC	BB	Colorado.....	4.2	(NA)
West Region.....	EE	CC	New Mexico.....	BB	(NA)
Pacific Division.....	EE	CC	Arizona.....	4.6	(NA)
Oregon.....	AA	AA	Pacific Division.....	141.0	(NA)
California.....	EE	CC	Washington.....	CC	(NA)
			Oregon.....	9.9	(NA)
			California.....	123.8	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2891-	Adhesives and sealants.....	954.3	(NA)	(NA)	(NA)	(NA)	547.7	(NA)	(NA)
28913	Natural base glues and adhesives.....	119.5	2557.7	2489.7	2513.4	2448.2	98.4	2325.1	2234.5
28914	Synthetic resin, rubber adhesives, including bonding adhesives.....	671.8					356.6		
28915	Calking compounds and sealants.....	121.2					68.3		
28910	Adhesives and sealants, n.s.k.....	41.7	(NA)	(NA)	(NA)	(NA)	24.4	(NA)	(NA)
2892-	Explosives.....	237.6	188.8	213.0	243.5	254.3	248.5	181.0	169.7
28921	Explosives, except government-owned contractor operated plants.....	232.8	188.8	213.0	243.5	254.3	248.5	181.0	169.7
28920	Explosives, n.s.k.....	4.7							
2893-	Printing ink.....	498.0	407.7	389.1	441.8	397.4	342.6	258.2	211.5
28931	Letterpress inks (Black and color).....	109.8	407.7	389.1	441.8	397.4	342.6	258.2	211.5
28932	Lithographic and offset inks (Black and color).....	151.8							
28933	Gravure inks.....	82.5							
28934	Flexographic inks.....	73.4							
28935	Printing ink, n.e.c.....	35.2							
28930	Printing ink, n.s.k.....	45.4							
28950	Carbon black.....	227.1	226.9	218.8	201.5	198.6	167.8	149.4	118.9
2899-	Chemical preparations, n.e.c. ³	2,228.3	1,777.5	1,744.0	1,739.7	1,599.4	1,559.6	1,124.1	848.6
28991	Salt.....	133.9	111.0	114.3	118.9	122.0	111.6	98.4	86.5
28992	Fatty acids.....	155.3	126.0	126.0	130.1	126.8	111.1	88.1	67.6
28994	Gelatin, except ready-to-eat desserts.....	68.2	71.5	80.2	77.7	70.7	66.2	55.4	52.0
28995	Essential oils, fireworks, sizes, etc., n.e.c.....	1,641.0	1,366.7	1,353.1	1,321.6	1,188.2	1,146.1	841.0	615.7
28990	Chemical preparations, n.e.c., n.s.k.....	229.8	102.3	70.4	91.4	91.7	124.6	41.2	26.8

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

²The individual products codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 14 percent of the total 1967 shipments of the U.S. level.

³Totals prior to 1972 do not include values for embalming chemicals, product code 28995 83, which was part of code 39943 98. Totals prior to 1972 were revised to include values for gelatin, except ready-to-eat desserts, product class 28994.

⁴Total for 1967 revised to include values for sizes, product codes 28995 63 and 28995 65, which, for 1972 are classified in product class 28995.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	Consumption of materials received from other establishments			
				1972		1967	
				Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2892.--EXPLOSIVES						
	Materials, total.....			(X)	90.0	(X)	240.7
287312	Ammonia, synthetic anhydrous.....	100% NH ₃ ...	1,000 s. tons.....	(1)	(1)	226.1	13.2
287314	Ammonium nitrate.....	100% NH ₄ NO ₃	...do.....	321.5	12.5	107.4	6.4
280093	Mixed acid (sulfuric and nitric).....	...do.....	...do.....	5.8	.5	11.7	.8
287311	Nitric acid.....	100% HNO ₃...	...do.....	(1)	(1)	(D)	(D)
281931	Sulfuric acid, except spent acid.....	100% H ₂ SO ₄	...do.....	72.9	1.6	370.4	8.5
970099	All other materials and components, parts and supplies consumed...			(X)	68.1	(X)	189.3
973000	Materials, containers, and supplies, n.s.k. ²			(X)	7.3	(X)	22.5
	INDUSTRY 2895.--CARBON BLACK						
	Materials, total.....			(X)	78.3	(X)	60.9
291101	Fuel oil used as a raw material.....		42 gal.bbbl.	13,846.8	48.1	10,380.1	29.5
131302	Natural gas used as a raw material.....		Mil.cu.ft..	58,535.0	11.7	104,015.5	14.5
970099	All other materials and components, parts and supplies consumed..			(X)	18.3	(X)	16.9
973000	Materials, containers, and supplies, n.s.k.....			(X)	.2	(X)	

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

¹Included in code 970099.²This item represents the total cost of materials for establishments that did not report detailed materials data.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
INDUSTRY 2891.--ADHESIVE AND SEALANTS						
	Purchased fuels and electric energy.....		(X)	11.5	(X)	(NA)
	Purchased fuels, total.....		(X)	7.6	(X)	(NA)
121005	Coal.....	1,000 s. tons....	3.0	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	855.4	3.5	(NA)	(NA)
291141	Distillate.....	..do.....	303.6	1.2	(NA)	(NA)
291151	Residual.....	..do.....	551.9	2.3	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	4.2	2.1	(NA)	(NA)
960011	Other fuels.....		(X)	.6	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	267.8	3.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.4	-	(NA)	(NA)
INDUSTRY 2892.--EXPLOSIVES						
	Purchased fuels and electric energy.....		(X)	21.8	(X)	17.7
	Purchased fuels, total.....		(X)	15.4	(X)	11.5
121005	Coal.....	1,000 s. tons....	547.0	6.8	701.1	5.3
331212	Coke.....	..do.....	-	-	(Z)	(Z)
	Fuel oil, total.....	1,000 bbl (42 gal)	267.5	1.2	335.8	1.3
291141	Distillate.....	..do.....	157.8	.8	282.0	1.2
291151	Residual.....	..do.....	109.7	.5	53.8	.1
131300	Natural gas.....	Billion ft ³	7.0	2.7	1.7	.7
960011	Other fuels.....		(X)	4.5	(X)	2.1
975000	Fuels, n.s.k.....		(X)	.3	(X)	2.1
960012	Purchased electric energy.....	Million kWh.....	630.3	6.4	626.6	6.2
	Quantity of electric energy generated less quantity sold....	..do.....	8.4	-	8.0	-
	Total energy used for heat and power.....	Bil. kWh equiv....	8.4	-	9.6	-
INDUSTRY 2895.--CARBON BLACK						
	Purchased fuels and electric energy.....		(X)	8.9	(X)	6.1
	Purchased fuels, total.....		(X)	4.6	(X)	2.8
121005	Coal.....	1,000 s. tons....	-	-	-	-
331212	Coke.....	..do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	-	-	-	-
291141	Distillate.....	..do.....	-	-	-	-
291151	Residual.....	..do.....	-	-	-	-
131300	Natural gas.....	Billion ft ³	18.7	4.1	15.3	2.7
960011	Other fuels.....		(X)	.6	(X)	(Z)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	.1
960012	Purchased electric energy.....	Million kWh.....	495.0	4.3	364.4	3.3
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	.7	-
	Total energy used for heat and power.....	Bil. kWh equiv....	6.3	-	5.1	-
INDUSTRY 2899.--CHEMICAL PREPARATIONS, N.E.C.						
	Purchased fuels and electric energy.....		(X)	29.2	(X)	19.5
	Purchased fuels, total.....		(X)	19.9	(X)	13.4
121005	Coal.....	1,000 s. tons....	376.9	4.6	516.5	3.5
331212	Coke.....	..do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	618.6	2.7	610.3	1.7
291141	Distillate.....	..do.....	368.8	1.7	203.0	.7
291151	Residual.....	..do.....	249.8	1.0	407.3	1.0
131300	Natural gas.....	Billion ft ³	15.9	7.1	11.1	4.1
960011	Other fuels.....		(X)	1.3	(X)	.8
975000	Fuels, n.s.k.....		(X)	4.2	(X)	3.3
960012	Purchased electric energy.....	Million kWh.....	892.2	9.3	496.8	6.1
	Quantity of electric energy generated less quantity sold....	..do.....	86.8	-	111.9	-
	Total energy used for heat and power.....	Bil. kWh equiv....	13.8	-	12.4	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the data did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

MAJOR GROUP 29

Petroleum and Coal Products

29A Petroleum and coal products

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts in Major Group 33.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees ¹		Production workers			Value added by manufacture ²	Cost of materials ³	Value of industry shipments ³	Capital expenditures, new ⁴
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: ⁵											
1972.....	2,261	875	209.5	2,633.7	97.9	200.5	1,064.0	5,793.1	22,762.5	28,694.7	1,154.2
1967 ⁶	2,084	849	210.8	1,960.6	99.2	202.1	786.3	5,425.9	16,748.4	22,043.4	999.3
1963.....	2,056	840	219.9	1,762.9	109.4	216.7	745.1	3,713.2	14,291.5	17,994.7	413.7
1958.....	1,941	653	247.4	1,665.9	130.5	255.4	758.4	2,518.4	(NA)	15,623.1	681.8
1954.....	1,262	592	231.0	1,285.3	135.8	269.3	659.2	2,240.9	(NA)	(NA)	673.9
Administrative and auxiliary units:											
1972.....	245	155	70.0	996.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967.....	204	145	69.1	744.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963.....	217	151	66.4	629.1	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958.....	233	168	68.2	539.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954.....	(NA)	(NA)	47.6	332.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972 ⁶	2,016	720	139.5	1,637.5	97.9	200.5	1,064.0	5,793.1	22,762.5	28,694.7	1,154.2
1967 ⁶	1,880	704	141.7	1,216.2	99.2	202.1	786.3	5,425.9	16,748.4	22,043.4	999.3
1963 ⁶	1,839	689	153.5	1,133.9	109.4	216.7	745.1	3,713.2	14,291.5	17,994.7	413.7
1958 ⁶	1,708	821	179.2	1,116.7	130.5	255.4	758.4	2,518.4	(NA)	15,623.1	681.8
1954 ⁶	1,262	659	183.3	953.2	135.8	269.3	659.2	2,240.9	(NA)	(NA)	673.9
Operating manufacturing establishments (original) ⁷	1,381	681	215.8	1,101.8	163.8	322.9	778.4	2,622.0	(NA)	(NA)	753.2
Operating manufacturing establishments:											
1971 ⁸	(NA)	(NA)	141.3	1,564.1	97.1	197.6	993.5	5,616.8	21,460.7	26,935.2	1,304.0
1970 ⁸	(NA)	(NA)	143.8	1,487.2	99.6	204.9	941.6	5,477.9	19,493.5	24,882.9	1,217.6
1969 ⁸	(NA)	(NA)	141.9	1,368.7	98.1	196.7	857.1	5,703.3	18,720.5	24,392.9	1,071.6
1968 ⁸	(NA)	(NA)	141.0	1,284.3	98.4	201.3	825.1	5,567.1	17,664.3	23,190.0	1,064.9
1966 ⁸	(NA)	(NA)	139.8	1,128.0	99.1	198.0	741.7	4,753.8	15,652.5	20,419.7	668.7
1965 ⁸	(NA)	(NA)	142.4	1,107.4	101.6	203.7	732.6	4,131.3	14,973.6	19,111.4	603.5
1964 ⁸	(NA)	(NA)	148.4	1,127.1	105.4	213.6	743.2	3,780.4	14,570.2	18,357.5	412.6
1962 ⁸	(NA)	(NA)	154.3	1,096.9	110.0	221.8	724.2	3,439.0	13,786.5	17,192.5	479.4
1961 ⁸	(NA)	(NA)	159.6	1,118.1	114.4	229.0	745.1	3,382.1	13,493.4	16,827.3	495.0
1960 ⁸	(NA)	(NA)	170.9	1,145.4	124.1	249.6	772.9	3,307.5	(NA)	(NA)	484.8
1959 ⁸	(NA)	(NA)	170.9	1,128.0	124.2	246.5	761.4	2,894.2	(NA)	(NA)	430.5
1957 ⁸	(NA)	(NA)	185.6	1,149.9	135.1	268.1	771.0	3,249.3	(NA)	(NA)	899.6
1956 ⁸	(NA)	(NA)	184.0	1,082.6	136.3	271.0	744.1	3,317.8	(NA)	(NA)	700.7
1955 ⁸	(NA)	(NA)	183.0	1,001.3	135.8	270.9	692.0	2,793.1	(NA)	(NA)	545.3
1953 ⁸	(NA)	(NA)	229.3	1,139.6	175.8	350.6	821.0	2,795.4	(NA)	(NA)	833.4
1952 ⁸	1,024	(NA)	220.2	1,035.7	170.3	338.4	751.1	2,618.9	(NA)	(NA)	612.3
1951 ⁸	889	(NA)	218.1	970.1	169.9	347.0	712.1	2,686.6	(NA)	(NA)	331.5
1950 ⁸	1,142	(NA)	207.5	850.3	161.9	330.2	623.8	2,138.6	(NA)	(NA)	331.5
1949 ⁸	(NA)	(NA)	208.4	820.2	166.7	335.6	614.3	1,743.8	(NA)	(NA)	473.7
1947 ⁹	1,411	(NA)	207.6	726.0	165.4	354.1	543.4	1,990.9	(NA)	(NA)	399.8
1939 ¹⁰	1,227	(NA)	(NA)	(NA)	107.7	(NA)	176.6	697.3	(NA)	(NA)	(NA)
1937.....	934	(NA)	(NA)	(NA)	115.8	(NA)	188.8	638.3	(NA)	(NA)	(NA)
1935 ¹¹	928	(NA)	124.1	186.5	105.1	(NA)	143.1	471.4	(NA)	(NA)	(NA)
1933.....	835	(NA)	102.5	140.7	89.7	(NA)	113.3	395.2	(NA)	(NA)	(NA)
1931.....	859	(NA)	(NA)	(NA)	90.8	(NA)	139.8	431.6	(NA)	(NA)	(NA)
1929 ¹²	922	(NA)	(NA)	(NA)	111.6	(NA)	180.0	828.8	(NA)	(NA)	(NA)
1927.....	645	(NA)	116.4	201.9	99.8	(NA)	159.0	543.1	(NA)	(NA)	(NA)
1925.....	750	(NA)	113.1	193.4	97.1	(NA)	153.9	634.9	(NA)	(NA)	(NA)
1923.....	781	(NA)	124.5	210.1	103.1	(NA)	163.3	562.0	(NA)	(NA)	(NA)
1921.....	692	(NA)	102.5	175.9	86.5	(NA)	135.8	429.9	(NA)	(NA)	(NA)
1919.....	787	(NA)	118.2	182.4	97.3	(NA)	142.6	510.8	(NA)	(NA)	(NA)
1914.....	591	(NA)	60.0	49.0	50.7	(NA)	36.4	111.9	(NA)	(NA)	(NA)
1909 ¹³	590	(NA)	51.3	34.1	45.8	(NA)	26.8	76.3	(NA)	(NA)	(NA)
1904.....	376	(NA)	39.1	23.3	35.8	(NA)	19.3	57.5	(NA)	(NA)	(NA)
1899.....	308	(NA)	31.3	16.4	29.2	(NA)	13.8	37.0	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.²For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.³The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.⁴The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.⁵See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.⁶In addition to data for operating establishments, 1954, 1958, 1963, 1967, and 1972 data are shown for manufacturer's central administrative offices and auxiliary units. Similar data are shown for the years 1949 to 1953 and 1955 to 1957 in annual survey of manufactures volumes. Data for these units are not available for the years prior to 1949.⁷The 1957 edition of the Standard Industrial Classification classified beehive coke ovens and by-product coke ovens in Major Group 33. Such establishments were previously included in Major Group 29, Petroleum and Coal Products. However, this change was reflected in the tabulations for 1955 annual surveys of manufactures. Data for 1954 were retabulated on this basis and are the source of the data labeled "Revised". Figures labeled "Original" for 1954 and data for prior years include beehive and by-product coke ovens.

Footnotes continued on next page.

General Statistics: 1972 and Earlier Years—Continued

Footnotes for table 1.—Continued

⁸These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

⁹The 1947 figures have been revised to exclude data for byproduct coke plants operated in conjunction with public utilities manufacturing and distributing gas, and to include data for establishments primarily engaged in shipping lubricants and greases made from animal and vegetable oils classified in industry 2899, in 1947. The figures for 1949 to 1953 cannot be revised to include these greases.

¹⁰Figures for years prior to 1939 exclude byproduct coke ovens owned by city gas companies. Such ovens represent less than 2 percent of the total value of products for the petroleum and coal products group for 1939.

¹¹Excludes a few establishments engaged principally in blending and compounding lubricating oils.

¹²Figures for years prior to 1929 exclude lubricants, n.e.c., and paving mixtures and blocks. These industries represented 4 percent of the figure for number of production workers and 5 percent of the figure for value added by manufacture, shown for the petroleum and coal products group for 1929. Prior to 1929, the lubricants, n.e.c., industry is included in the series for chemical and allied products group.

¹³Figures for years prior to 1909 exclude fuel briquets and roofing felts and coating. For 1909, these industries represented 6 percent of the figure for number of production workers and 9 percent of the figure for value added by manufacture shown for the petroleum and coal products group.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
29	PETROLEUM AND COAL PRODUCTS, . . .	2 016	720	139.5	1 637.5	97.9	200.5	1 064.0	5 793.1	22 762.5	28 694.7	1 154.2	141.7	5 425.9
	NORTHEAST REGION	509	138	24.3	280.0	17.1	35.2	186.9	857.2	3 100.4	3 979.6	195.3	23.4	623.4
	NEW ENGLAND DIVISION	107	23	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.8	37.8
	MAINE	7	4	ED	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS	64	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	RHODE ISLAND	6	2	2	1.9	1	3	1.3	4.1	11.0	17.6	(0)	(NA)	(NA)
	CONNECTICUT	25	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4	11.2
	MIDDLE ATLANTIC DIVISION	402	115	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	21.6	585.6
	NEW YORK	158	27	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.1	78.0
	NEW JERSEY	87	39	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	6.5	190.3
	PENNSYLVANIA	157	49	12.2	137.0	8.6	16.7	91.7	349.0	1 520.0	1 886.7	115.4	12.9	311.3
	NORTH CENTRAL REGION	548	207	33.3	389.5	23.0	48.3	246.8	1 478.0	5 075.9	6 576.3	286.3	30.3	1 276.3
	EAST NORTH CENTRAL DIVISION	419	150	25.8	309.4	17.6	37.0	194.4	1 112.4	3 923.6	5 053.0	248.7	28.6	956.7
	OHIO	171	49	6.2	72.0	4.3	9.2	48.0	310.9	1 015.2	1 323.3	39.4	6.5	225.9
	INDIANA	50	23	6.2	80.5	4.1	8.6	47.1	211.8	938.0	1 164.5	34.3	7.6	220.1
	ILLINOIS	96	47	10.5	121.7	7.3	15.3	79.7	405.8	1 573.7	1 983.1	131.0	11.1	382.7
	MICHIGAN	69	24	2.5	29.8	1.6	3.3	16.0	167.7	338.5	512.1	38.0	FF	(0)
	WISCONSIN	33	7	5	5.4	3	6	3.0	12.2	58.1	70.0	5.1	CC	(0)
	WEST NORTH CENTRAL DIVISION	129	57	7.4	80.2	5.4	11.3	52.5	365.6	1 152.2	1 523.3	37.6	7.7	319.6
	MINNESOTA	31	10	1.6	19.4	1.0	2.1	11.1	74.0	252.3	325.3	7.4	1.7	40.0
	IOWA	16	6	3	3.0	2	5	2.0	7.8	7.3	15.0	1.2	2	1.7
	MISSOURI	42	16	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.7	59.4
	NORTH DAKOTA	4	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	NEBRASKA	7	4	2	2.0	2	3	1.3	7.3	14.9	22.1	5	AA	(0)
	KANSAS	26	18	3.3	34.7	2.5	5.1	23.7	165.3	619.6	790.3	22.3	3.6	179.7
	SOUTH REGION	608	241	58.5	680.0	41.9	86.2	447.2	2 387.7	10 618.4	13 108.5	469.6	58.6	2 653.6
	SOUTH ATLANTIC DIVISION	214	60	6.0	57.1	4.3	9.1	37.3	286.9	550.5	840.4	36.5	5.2	181.7
	DELAWARE	8	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	MARYLAND	35	14	1.2	10.3	9	1.7	6.9	33.5	53.3	86.9	2.6	EE	(0)
	VIRGINIA	21	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	WEST VIRGINIA	23	9	9	7.9	7	1.5	6.5	25.9	69.8	93.0	6	6	10.9
	NORTH CAROLINA	20	2	2	1.7	2	4	1.2	12.6	14.6	27.4	6	AA	(0)
	SOUTH CAROLINA	8	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	GEORGIA	46	15	1.3	11.3	1.0	2.2	7.7	43.1	71.4	113.7	1.8	9	15.2
	FLORIDA	51	15	6	7.1	6	1.2	4.6	26.5	41.8	68.2	4.6	8	6.9
	EAST SOUTH CENTRAL DIVISION	118	33	3.9	39.3	2.9	6.3	26.9	179.6	757.0	940.3	28.5	3.5	143.2
	KENTUCKY	27	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	TENNESSEE	39	8	8	7.4	6	1.2	4.6	18.3	71.0	88.5	1.4	7	11.3
	ALABAMA	33	11	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	9	18.4
	MISSISSIPPI	19	10	1.3	14.1	9	2.2	9.2	83.4	348.5	435.6	21.9	CC	(0)
	WEST SOUTH CENTRAL DIVISION	276	148	48.6	583.6	34.7	70.8	383.0	1 921.2	9 310.9	11 327.8	404.6	50.0	2 326.8
	ARKANSAS	21	15	1.4	12.3	1.1	2.4	7.9	34.8	89.9	125.7	2.2	1.5	37.6
	LOUISIANA	58	33	9.5	121.9	6.1	12.9	71.2	442.6	2 468.7	2 917.9	179.9	9.9	345.5
	OKLAHOMA	42	21	5.0	51.3	4.0	7.9	38.8	105.6	764.3	882.0	32.1	5.1	143.2
	TEXAS	155	79	32.7	398.2	23.6	47.6	265.1	1 338.2	5 988.1	7 402.2	190.4	33.4	1 600.5

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manu- facture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manu- facture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					(million dollars)	(million dollars)
29	PETROLEUM AND COAL PRODUCTS-- CONTINUED													
	WEST REGION	351	134	23.5	287.9	16.0	30.9	183.1	1 070.2	3 967.7	5 030.1	203.1	23.2	372.5
	MOUNTAIN DIVISION	80	35	4.3	40.3	3.2	6.5	34.6	106.3	700.7	886.7	26.1	4.8	185.1
	MONTANA	9	0	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	43.5
	WYOMING	15	7	1.3	15.4	1.1	2.1	11.3	53.0	206.2	257.3	(D)	1.2	30.9
	COLORADO	10	7	.8	8.6	.6	1.3	6.8	24.0	81.6	104.9	6.4	.6	15.0
	NEW MEXICO	8	3	.3	2.6	.1	.3	1.4	10.9	44.0	54.8	.3	.4	14.5
	ARIZONA	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH	14	7	.8	9.1	.6	1.3	6.2	45.7	166.8	214.9	4.9	1.0	50.2
	PACIFIC DIVISION	271	99	19.2	238.7	12.8	24.3	148.3	803.8	3 267.0	4 143.3	174.9	18.4	777.4
	WASHINGTON	29	14	2.1	29.2	1.4	2.8	17.6	120.7	458.8	564.0	51.3	EE	(D)
	OREGON	18	9	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	11.1
	CALIFORNIA	216	71	16.1	198.4	10.7	20.4	123.7	724.7	2 663.0	3 397.0	109.5	16.4	554.2
	HAWAII	5	4	BB	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
291	PETROLEUM REFINING	323	277	100.6	1 247.1	71.2	142.3	816.3	4 594.7	21 171.3	25 921.1	1 061.0	(NA)	(NA)
	NORTHEAST REGION	38	29	14.0	167.2	10.1	19.4	115.8	543.0	2 691.8	3 297.7	161.3	(NA)	(NA)
	NEW ENGLAND DIVISION	3	2	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	35	27	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY	11	9	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA	18	15	9.1	102.3	6.6	12.5	73.8	262.6	1 397.6	1 678.2	107.9	(NA)	(NA)
	NORTH CENTRAL REGION	65	59	20.9	262.2	14.5	29.6	165.3	1 075.9	4 561.7	5 664.7	260.4	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	45	39	16.2	206.9	11.1	22.7	130.1	808.9	3 521.6	4 350.3	231.6	(NA)	(NA)
	OHIO	14	11	2.9	36.8	2.0	4.1	25.2	215.5	889.9	1 104.0	33.0	(NA)	(NA)
	INDIANA	7	7	5.2	69.4	3.4	7.3	40.2	163.8	904.2	1 102.8	32.8	(NA)	(NA)
	ILLINOIS	13	12	6.4	79.0	4.6	9.1	52.6	277.6	1 387.8	1 666.2	125.3	(NA)	(NA)
	MICHIGAN	9	7	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	20	20	4.7	56.3	3.4	7.1	35.1	267.1	1 040.2	1 314.4	28.6	(NA)	(NA)
	MINNESOTA	3	3	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	2	2	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH DAKOTA	2	2	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	12	12	2.8	31.0	2.2	4.5	21.4	148.9	603.8	759.9	20.7	(NA)	(NA)
	SOUTH REGION	137	119	47.5	586.3	34.1	69.1	386.7	2 090.3	10 154.9	12 350.2	451.7	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	19	13	1.9	23.1	1.3	2.8	14.3	168.6	373.6	545.3	29.2	(NA)	(NA)
	DELAWARE	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	1	1	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA	4	3	BB	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	15	15	2.2	25.6	1.6	3.3	17.6	128.0	685.9	817.4	24.6	(NA)	(NA)
	KENTUCKY	4	4	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ALABAMA	5	5	.3	3.3	.3	.5	2.4	13.7	44.3	52.3	1.0	(NA)	(NA)
	MISSISSIPPI	5	5	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	103	91	43.3	537.6	31.2	63.1	356.8	1 793.7	9 095.4	10 967.5	397.9	(NA)	(NA)
	ARKANSAS	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	LOUISIANA	25	22	8.5	112.2	5.4	11.3	65.1	408.7	2 397.2	2 813.4	178.7	(NA)	(NA)
	OKLAHOMA	15	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	59	53	30.2	375.7	22.1	44.4	253.9	1 274.4	5 903.6	7 254.7	187.4	(NA)	(NA)
	WEST REGION	93	70	18.4	231.3	12.5	23.9	146.6	885.4	3 742.9	4 648.4	188.2	(NA)	(NA)
	MOUNTAIN DIVISION	30	24	3.4	40.5	2.6	5.2	26.6	157.9	671.3	828.8	25.6	(NA)	(NA)
	MONTANA	7	0	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WYOMING	10	7	1.3	15.1	1.0	2.1	11.2	51.8	204.3	254.2	(D)	(NA)	(NA)
	COLORADO	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW MEXICO	4	3	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH	5	4	.6	7.6	.5	1.1	5.4	42.0	162.2	206.5	4.7	(NA)	(NA)
	PACIFIC DIVISION	53	46	15.0	190.8	10.0	18.7	117.9	727.5	3 091.7	3 819.8	162.5	(NA)	(NA)
	WASHINGTON	8	7	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	39	35	13.2	166.8	8.8	16.5	104.3	615.2	2 523.3	3 148.4	101.6	(NA)	(NA)
	HAWAII	2	2	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
295	PAVING AND ROOFING MATERIALS	1 199	309	29.5	296.5	21.5	47.8	204.0	846.4	1 100.7	1 932.0	75.9	(NA)	(NA)
	NORTHEAST REGION	365	72	7.5	87.1	5.5	12.8	57.6	221.5	281.0	501.0	28.1	6.2	121.2
	NEW ENGLAND DIVISION	81	18	2.0	20.9	1.5	3.4	14.7	49.9	66.4	116.7	9.5	1.5	27.3
	MAINE	7	4	BB	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	45	8	1.1	12.0	.8	1.8	8.2	26.1	42.9	69.0	4.9	EE	(D)
	CONNECTICUT	20	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.9
	MIDDLE ATLANTIC DIVISION	274	54	5.5	61.3	4.0	9.4	42.9	171.6	214.3	384.2	18.6	4.7	91.4
	NEW YORK	124	18	FE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	NEW JERSEY	53	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	PENNSYLVANIA	97	16	1.7	18.5	1.2	2.7	11.7	53.4	71.5	124.7	5.2	1.8	30.3
	NORTH CENTRAL REGION	318	95	8.9	91.4	6.7	14.7	65.2	248.1	334.0	578.3	19.8	9.0	143.3
	EAST NORTH CENTRAL DIVISION	247	71	7.2	75.2	5.3	11.7	52.7	198.2	276.3	471.2	13.0	7.7	124.3
	OHIO	119	27	2.6	27.2	1.9	4.4	19.4	69.8	95.1	162.9	5.1	2.3	43.1
	INDIANA	35	15	.9	10.4	.6	1.2	6.6	26.2	28.9	54.9	1.4	1.1	15.7
	ILLINOIS	47	21	3.1	30.9	2.3	5.2	22.0	83.8	120.4	203.1	4.0	3.6	57.3
	MICHIGAN	31	8	.5	5.8	.4	.8	4.0	16.4	29.6	46.1	1.7	.6	11.6
	WEST NORTH CENTRAL DIVISION	71	24	1.7	16.2	1.4	3.0	12.4	49.9	57.8	107.1	6.0	1.3	19.0
	MINNESOTA	19	5	BB	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	7.3
	IOWA	11	4	.2	2.2	.2	.4	1.7	4.9	4.4	9.2	.9	(NA)	(NA)
	MISSOURI	26	11	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	KANSAS	6	2	.2	1.1	.1	.3	.8	3.9	3.9	7.9	1.1	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
295	PAVING AND ROOFING MATERIALS-- CONTINUED													
	SOUTH REGION	337	94	8.9	75.3	6.5	14.3	48.8	234.6	327.4	561.1	14.5	6.2	127.1
	SOUTH ATLANTIC DIVISION	154	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	MARYLAND	26	4	.9	7.1	.7	1.3	5.0	22.7	25.8	48.5	1.4	.9	15.7
	WEST VIRGINIA	14	4	.3	2.4	.2	.5	1.7	5.3	8.6	13.9	.3	.3	3.7
	NORTH CAROLINA	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	SOUTH CAROLINA	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	GEORGIA	34	10	1.0	8.8	.8	1.8	6.4	32.7	45.1	77.5	1.2	.6	15.0
	FLORIDA	37	12	.7	5.2	.5	1.0	3.4	20.6	31.8	52.5	1.7	.6	6.4
	EAST SOUTH CENTRAL DIVISION	88	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	25.4
	TENNESSEE	34	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	ALABAMA	23	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	11.4
	MISSISSIPPI	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.2
	WEST SOUTH CENTRAL DIVISION	90	41	3.9	33.3	2.6	5.9	19.6	64.4	109.0	192.5	4.1	3.4	47.7
	ARKANSAS	12	3	.7	5.9	.6	1.4	4.2	10.7	17.0	25.0	1.7	.8	(D)
	LOUISIANA	17	7	.5	5.3	.4	1.0	3.6	15.0	17.1	31.9	.5	.6	6.5
	OKLAHOMA	19	6	.5	4.0	.4	.9	2.8	9.4	14.7	23.9	.4	.5	(D)
	TEXAS	45	20	2.1	18.1	1.2	2.6	9.0	49.4	59.5	108.6	1.5	EE	(D)
	WEST REGION	189	48	4.2	47.6	3.0	6.0	32.5	142.1	158.2	242.5	13.5	3.0	57.3
	MOUNTAIN DIVISION	35	11	.8	8.2	.6	1.3	5.9	26.1	26.1	52.3	2.4	CC	(D)
	COLORADO	12	4	.4	4.1	.3	.6	3.5	13.3	10.3	23.7	1.1	.5	3.7
	ARIZONA	11	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	154	37	3.4	36.4	2.4	4.7	26.6	116.0	122.1	240.2	11.1	EE	(D)
	WASHINGTON	16	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	OREGON	14	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	CALIFORNIA	119	21	2.1	23.8	1.5	3.0	15.9	70.7	98.0	167.9	(D)	1.8	36.6
299	MISC. PETROLEUM, COAL PRODUCTS	494	134	9.2	93.9	5.2	10.4	43.7	352.1	490.5	840.7	16.7	(NA)	(NA)
	NORTHEAST REGION	116	37	2.8	30.7	1.5	3.0	13.6	92.7	127.6	221.1	5.6	(NA)	(NA)
	NEW ENGLAND DIVISION	23	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	93	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	28	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY	23	10	.6	7.3	.4	.7	3.7	31.5	49.1	81.6	1.5	(NA)	(NA)
	PENNSYLVANIA	42	18	1.4	16.3	.7	1.4	6.2	32.9	50.9	83.8	2.2	(NA)	(NA)
	NORTH CENTRAL REGION	165	53	3.4	35.9	1.9	3.7	16.4	153.9	160.1	333.4	6.0	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	127	40	2.5	27.3	1.2	2.6	11.5	105.3	125.8	231.5	3.4	(NA)	(NA)
	OHIO	38	11	.8	7.9	.6	.8	3.3	25.6	30.3	56.4	1.3	(NA)	(NA)
	ILLINOIS	36	14	1.0	11.9	.5	1.0	5.0	48.4	65.5	113.9	1.1	(NA)	(NA)
	MICHIGAN	29	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN	16	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	38	13	1.0	8.6	.6	1.2	4.9	48.6	54.3	101.9	2.1	(NA)	(NA)
	MISSOURI	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	8	4	.3	2.6	.2	.4	1.5	12.4	11.9	24.0	.5	(NA)	(NA)
	SOUTH REGION	134	28	2.1	18.4	1.4	2.7	4.7	62.7	136.1	197.2	3.4	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	36	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	15	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	83	16	1.4	12.7	.9	1.9	6.7	43.1	106.5	147.5	2.5	(NA)	(NA)
	ARKANSAS	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	LOUISIANA	10	4	.4	4.4	.3	.6	2.5	18.9	54.4	72.6	.7	(NA)	(NA)
	OKLAHOMA	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	51	6	.5	4.4	.3	.6	2.3	14.4	24.9	38.9	1.4	(NA)	(NA)
	WEST REGION	79	16	.9	9.0	.5	1.0	4.1	42.7	46.6	89.0	1.4	(NA)	(NA)
	PACIFIC DIVISION	64	16	.8	8.5	.5	.9	3.8	40.4	43.3	83.3	1.3	(NA)	(NA)
	CALIFORNIA	58	15	.6	7.8	.4	.9	3.5	38.9	42.2	80.7	(D)	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Petroleum and coal products (SIC 29)	Petroleum refining (SIC 291)	Paving and roofing materials (SIC 295)	Miscellaneous petroleum and coal product (SIC 299)
ESTABLISHMENTS, TOTALNUMBER .	2 015	323	1 199	494
WITH 1 TO 19 EMPLOYEES.DO .	1 296	46	890	360
WITH 20 TO 99 EMPLOYEESDO .	456	100	235	121
WITH 100 EMPLOYEES OR MORE.DO .	264	177	74	13
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	139.5	100.8	29.5	9.2
PAYROLL FOR YEAR, ALL EMPLOYEES . . . MILLION DOLLARS .	1 637.5	1 247.1	296.5	93.9
PRODUCTION WORKERS:				
AVERAGE FOR YEAR.1,000 .	97.9	71.2	21.5	5.2
MARCHDO .	94.1	70.8	18.3	5.0
MAYDO .	98.7	71.5	22.0	5.2
AUGUST.DO .	100.8	71.8	23.5	5.5
NOVEMBER.DO .	98.1	70.7	22.2	5.2
MAN-HOURSMILLIONS .	200.5	142.3	47.8	10.4
JANUARY-MARCHDO .	47.3	35.4	9.5	2.5
APRIL-JUNE.DO .	51.2	36.2	12.4	2.6
JULY-SEPTEMBER.DO .	51.9	35.4	13.9	2.7
OCTOBER-DECEMBER.DO .	50.0	35.4	12.0	2.6
WAGESMILLION DOLLARS .	1 064.0	816.3	204.0	43.7
COST OF MATERIALS, ETC., TOTAL ¹DO .	22 762.5	21 171.3	1 100.7	490.5
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMEDDO .	20 997.3	19 610.8	955.6	430.9
COST OF REALESDO .	956.1	834.5	76.6	44.9
FUELS CONSUMED.DO .	482.4	438.8	37.3	6.2
PURCHASED ELECTRIC ENERGYDO .	211.0	192.1	16.1	2.8
CONTRACT WORKDO .	115.8	95.1	15.0	5.6
VALUE OF SHIPMENTS, INCLUDING REALES ¹DO .	28 694.7	25 921.1	1 932.9	840.7
VALUE OF REALES.DO .	1 064.5	909.9	98.8	55.8
VALUE ADDED BY MANUFACTURE.DO .	5 793.1	4 594.7	846.4	352.1
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL.DO .	2 353.5	2 160.3	91.1	102.1
FINISHED PRODUCTSDO .	1 350.9	1 258.7	41.5	50.7
WORK IN PROCESSDO .	485.3	469.3	8.9	7.0
MATERIALS, SUPPLIES, FUEL, ETC.DO .	517.3	432.2	40.6	44.4
END OF YEAR, TOTAL.DO .	2 223.0	2 002.2	103.2	117.6
FINISHED PRODUCTSDO .	1 226.9	1 127.4	48.1	51.4
WORK IN PROCESSDO .	459.2	442.9	8.8	7.6
MATERIALS, SUPPLIES, FUEL, ETC.DO .	536.8	431.9	46.3	58.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . .DO .	1 171.5	1 071.6	82.7	17.3
NEW PLANT AND EQUIPMENT, TOTAL.DO .	1 154.2	1 061.6	75.9	16.7
NEW STRUCTURES AND ADDITIONS TO PLANTDO .	625.2	603.5	17.8	4.0
NEW MACHINERY AND EQUIPMENTDO .	529.0	458.1	58.2	12.7
USED PLANT AND EQUIPMENT.DO .	17.3	9.9	6.8	.6

¹The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Petroleum and Coal Products

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EXPLANATORY TEXT

PETROLEUM AND COAL PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 2911—Petroleum Refining**
- 2951—Paving Mixtures and Blocks**
- 2952—Asphalt Felts and Coatings**
- 2992—Lubricating Oils and Greases**
- 2999—Products of Petroleum and Coal, N.E.C.***

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 2911.—PETROLEUM REFINING

This industry comprises establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, and other products from crude petroleum and its fractionation products through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, and cracking or other processes. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Establishments manufacturing lubricating oils and greases by blending and compounding purchased materials and those primarily rerefining used lubricating oils are included in industry 2992. For a detailed list of products

of industry 2911, refer to table 6A, product codes 29111 11 to 29110 98.

The 1972 definition of this industry has been slightly revised from that used in the 1967 SIC manual. However, the SIC number and title are unchanged. Establishments primarily engaged in rerefining used lubricating oils are now classified in industry 2992; they were classified in industry 2911 in 1967 and prior years. The change in classification had no significant effect on data for either industry 2911 or industry 2992.

Value of shipments and other receipts of the Petroleum Refining Industry in 1972 totaled \$25,921.1 million. This included shipments of petroleum refinery products (primary products) valued at \$24,590.1 million, shipments of other products (secondary products) valued at \$322.3 million, and miscellaneous receipts (mainly resales) of \$1,008.7 million.

Shipments of petroleum refinery products (primary products) in 1972 represented 99 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 98 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial organic chemicals, n.e.c., (\$110.3 million).

Shipments of petroleum refinery products (primary products) from establishments classified in industry 2911 in 1972 represented 97 percent (coverage ratio) of these products valued at \$25,414.8 million shipped by all industries. In 1967, the coverage ratio was also 97 percent. Other industries shipping petroleum refinery products consisted mainly of industry 2869, Industrial Organic Chemicals, N.E.C., (\$132.6 million).

Lubricating oils, lubricating oil base stocks, and lubricating greases are not only produced by petroleum refineries but are also produced from purchased materials by plants blending and compounding lubricants and are classified in industry 2992, Lubricating Oils and Greases. Plants classified in industries 2911 and 2992 shipped substantially all of the lubricating oils and greases, valued at \$1,536.7 million, with industry 2911 accounting for 58 percent.

Oils are frequently transferred from one refinery to another for further processing and blending. This introduces some duplications in the value of products shipped by the Petroleum Refining Industry, as shown in tables 1, 2, 3, 4, and 5. To eliminate duplication in the statistics for individual products, figures were collected on the amount of oil received by refineries during the year. Net (unduplicated) shipments were calculated for the United States as a whole by subtracting "Receipts" from the quantity shipped. (See table 6A.) These net shipments represent the quantity of petroleum products made available for consumption by the "Petroleum Refining" and "Lubricating Oils and Greases" industries.

* Note that the "short title" for this industry is used throughout the report.

Industry 2911 also includes establishments primarily engaged in the production of petroleum-based chemicals (petrochemicals). Detailed product statistics for liquefied refinery gases used as chemical raw material were not collected since these data are reported to the U.S. International Trade Commission and published in the report, "Synthetic Organic Chemicals, United States Production and Sales."

Unlike most manufacturing industries where the receipts for contract work are reported as such, plants in industry 2911 processing oil on a contract basis for other companies were requested to report the commercial cost of all materials received and the market values, f.o.b. plant, for the products shipped.

Petroleum product statistics shown in this report are not directly comparable with the Bureau of Mines figures published in the Minerals Yearbook. The census of manufactures collects data on shipments, whereas the Bureau of Mines figures are in terms of "output" (production).

Data showing net shipments of gas liquids and related products covered in the 1972 Economic Censuses appear in the reports for the 1972 Census of Mineral Industries. Table 7A contains data showing the consumption of selected materials. Other data relating to "inputs" of materials appear as "receipts" in table 6A.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2911, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 2951.—PAVING MIXTURES AND BLOCKS

This industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures, and paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in SIC Major Group 32. For a detailed list of products of industry 2951, refer to table 6A, product codes 29510 11 to 29510 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Paving Mixtures and Blocks Industry in 1972 totaled \$922.6 million. This included shipments of paving mixtures and blocks (primary

products) valued at \$806.8 million, shipments of other products (secondary products) valued at \$64.0 million, and miscellaneous receipts (mainly resales) of \$51.8 million.

Shipments of paving mixtures and blocks (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of ready-mixed concrete (\$14.9 million) and asphalt felts and coatings (\$10 to \$20 million).

Shipments of paving mixtures and blocks (primary products) from establishments classified in industry 2951 in 1972 represented 90 percent (coverage ratio) of these products valued at \$893.4 million shipped by all industries. In 1967, the coverage ratio was 95 percent. Other industries shipping paving mixtures and blocks consisted mainly of industry 3273, Ready-Mixed Concrete, (\$29.0 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2951, these establishments accounted for 8 percent of value of shipments.

INDUSTRY 2952.—ASPHALT FELTS AND COATINGS

This industry comprises establishments primarily engaged in manufacturing asphalt and other saturated felts in roll or shingle form, either smooth or faced with grit; and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in industry 2851 and linoleum and tile cement in industry 2891. For a detailed list of products of industry 2952, refer to table 6A, product codes 29521 11 to 29523 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Asphalt Felts and Coatings Industry in 1972 totaled \$1,011.4 million. This included shipments of asphalt felts and coatings (primary products) valued at \$869.5 million, shipments of other products (secondary products) valued at \$67.8 million, and miscellaneous receipts (mainly resales) of \$74.1 million.

Shipments of asphalt felts and coatings (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

The industry specialization ratio in 1967 was 91 percent. Secondary products shipped by this industry in 1972 consisted mainly of asbestos products (\$20 to \$50 million) and paving mixtures and blocks (\$10.3 million).

Shipments of asphalt felts and coatings (primary products) from establishments classified in industry 2952 in 1972 represented 96 percent (coverage ratio) of these products valued at \$902.2 million shipped by all industries. In 1967, the coverage ratio was 95 percent. Other industries shipping asphalt felts and coatings consisted mainly of industry 2951, Paving Mixtures and Blocks, (\$10 to \$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2952, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 2992.—LUBRICATING OILS AND GREASES

This industry comprises establishments primarily engaged in blending, compounding, and rerefining lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in industry 2911. For a detailed list of products of industry 2992, refer to table 6A, product codes 29920 21 to 29920 31.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. However, the SIC number and title are unchanged. Establishments primarily engaged in rerefining used lubricating oils, classified in industry 2911 in 1967 and prior years, are now classified in industry 2992. As a result of this revision, five establishments with 0.1 thousand employees and \$3.6 million value of shipments were shifted from industry 2911 to industry 2992. The effect of this shift was insignificant for both industries.

Value of shipments and other receipts of the Lubricating Oils and Greases Industry in 1972 totaled \$703.1 million. This included shipments of lubricating oils and greases (primary products) valued at \$612.6 million, shipments of other products (secondary products) valued at \$36.2 million, and miscellaneous receipts (mainly resales) of \$54.2 million.

Shipments of lubricating oils and greases (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 94 percent. Secondary products shipped by this industry in 1972

consisted mainly of petroleum refining products (\$8.4 million) and surface-active agents (\$5 to \$10 million).

Shipments of lubricating oils and greases (primary products) from establishments classified in industry 2992 in 1972 represented 40 percent (coverage ratio) of these products valued at \$1,536.7 million shipped by all industries. In 1967, the coverage ratio was 32 percent. However, lubricating oils and greases are also primary to industry 2911, Petroleum Refining. A coverage ratio computed on the basis of including both industries in which lubricating oils and greases are primary would total 98 percent in 1972. Lubricating oils and greases (primary products) shipped by industry 2911, Petroleum Refining, totaled \$894.8 million. Other industries shipping lubricating oils and greases consisted mainly of industry 2952, Asphalt Felts and Coatings, (\$5 to \$10 million) and industry 2899, Chemical Preparations, N.E.C., (\$5.1 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2992, these establishments accounted for 11 percent of value of shipments.

INDUSTRY 2999.—PETROLEUM AND COAL PRODUCTS, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in manufacturing fuel briquettes, boulets, packaged fuel, powdered fuel, and other products of petroleum and coal, not elsewhere classified. For a detailed list of products of industry 2999, refer to table 6A, product codes 29990 15 and 29990 98.

The 1972 definition of this industry is the same as that used in the 1967 SIC manual.

Value of shipments and other receipts of the Petroleum and Coal Products, N.E.C., Industry in 1972 totaled \$137.6 million. This included shipments of petroleum and coal products, n.e.c., (primary products) valued at \$126.3 million, shipments of other products (secondary products) valued at \$1.5 million, and miscellaneous receipts (mainly resales) of \$9.8 million.

Shipments of petroleum and coal products, n.e.c., (primary products) in 1972 represented 99 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 99 percent.

Shipments of petroleum and coal products, n.e.c., (primary products) from establishments classified in industry

2999 in 1972 represented 91 percent (coverage ratio) of these products valued at \$139.2 million shipped by all industries. In 1967, the coverage ratio was 92 percent.

The figures for fuel briquettes and packaged fuel appearing in this report exclude the quantities and amounts shipped by establishments producing wood charcoal briquettes (industry 2861) as well as establishments classified in nonmanufacturing industries. They therefore differ from the figures published by the Bureau of Mines, U.S. Department of Interior, in the Minerals Yearbook which include data for nonmanufacturing establishments, such as retail or wholesale coal yards, and public utilities which produce some fuel briquettes as a sec-

ondary activity. The Census figures for fuel briquettes also include information for briquettes made from charcoal and sawdust (data which are omitted by the Bureau of Mines).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 2999, these establishments accounted for 8 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2911.--PETROLEUM REFINING															
1972 Census.....	323	277	100.8	1,247.1	71.2	142.3	816.3	4,594.7	21,171.3	25,921.1	1,061.6	(NA)	2,002.2	99	97
1971 ASM.....	(NA)	(NA)	106.7	1,230.0	74.3	148.7	794.1	4,613.8	20,091.9	24,583.7	1,232.3	15,798.2	2,228.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	107.7	1,161.2	75.4	152.7	753.3	4,607.9	18,258.1	22,783.3	1,151.9	14,771.7	2,130.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	108.0	1,090.8	75.6	146.5	685.7	4,949.8	17,567.6	22,486.4	1,023.4	13,814.3	2,028.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	107.1	1,024.9	75.4	152.3	665.5	4,838.8	16,555.3	21,361.2	1,019.3	12,958.9	1,976.6	(NA)	(NA)
1967 Census.....	437	287	106.7	965.0	75.6	151.6	632.2	4,745.0	15,683.7	20,293.9	956.3	12,111.8	1,904.3	98	97
1966 ASM.....	(NA)	(NA)	105.5	897.3	75.5	149.9	597.5	4,099.2	14,640.9	18,758.7	630.7	(NA)	1,718.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	108.7	887.4	78.1	153.8	592.8	3,493.3	14,001.4	17,500.9	565.3	(NA)	1,680.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	113.8	905.9	81.6	162.1	605.0	3,192.2	13,606.3	16,802.4	384.3	10,289.1	1,678.4	(NA)	(NA)
1963 Census.....	427	297	118.3	922.3	85.2	166.4	614.3	3,138.2	13,367.3	16,497.5	385.1	10,096.5	1,695.5	98	97
1962 ASM.....	(NA)	(NA)	122.9	906.6	87.8	173.3	603.0	2,965.5	12,979.5	15,914.1	433.3	9,801.3	1,712.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	128.7	937.1	92.4	182.2	629.6	2,929.2	12,734.2	15,618.6	459.3	(NA)	1,652.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	134.9	935.8	97.3	192.4	635.2	2,773.4	12,713.4	15,505.1	455.5	(NA)	1,604.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	137.1	944.3	100.1	196.0	645.1	2,458.2	12,621.9	15,090.1	407.7	(NA)	1,643.0	(NA)	(NA)
1958 Census.....	446	313	146.0	944.3	106.9	207.6	648.3	2,119.4	12,249.4	14,539.1	656.8	(NA)	1,572.9	98	98
INDUSTRY 2951.--PAVING MIXTURES AND BLOCKS															
1972 Census.....	964	169	13.9	147.7	10.0	21.4	100.8	403.1	527.2	922.6	56.3	(NA)	38.5	93	90
1971 ASM.....	(NA)	(NA)	12.4	126.2	7.9	16.5	75.7	345.2	464.6	803.6	35.3	369.0	30.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	12.9	117.2	8.8	18.7	72.3	320.4	417.8	738.4	30.4	349.8	27.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	11.6	97.9	7.9	17.8	64.1	260.9	380.2	641.5	27.9	300.4	22.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	11.6	89.4	8.2	16.8	58.3	243.8	370.5	610.9	23.0	290.0	22.9	(NA)	(NA)
1967 Census.....	872	155	12.2	90.0	8.5	18.0	58.4	234.7	350.1	584.6	23.8	276.6	19.7	93	95
1966 ASM.....	(NA)	(NA)	10.4	70.5	7.7	14.9	46.9	185.9	293.6	479.2	20.1	(NA)	14.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.1	67.5	7.4	15.9	44.7	183.6	279.6	461.9	19.9	(NA)	14.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.9	64.2	6.8	15.1	41.3	160.7	283.8	442.6	13.5	175.2	13.4	(NA)	(NA)
1963 Census.....	762	127	9.7	62.1	6.7	15.1	40.0	165.6	261.8	427.5	15.1	166.3	12.1	92	89
1962 ASM.....	(NA)	(NA)	*8.3	*52.2	*6.2	*14.0	*34.9	*145.0	*199.2	*344.8	*17.1	153.6	*7.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*8.2	*49.8	*6.2	*13.8	*34.6	*124.7	*187.1	*314.9	*13.2	(NA)	*6.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*7.9	*46.5	*6.0	*13.1	*32.3	*131.4	*172.5	*304.0	*11.7	(NA)	*5.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*8.1	*44.4	*6.0	*12.1	*28.5	*112.9	*151.0	*265.7	*10.7	(NA)	*4.9	(NA)	(NA)
1958 Census.....	563	89	7.8	42.0	5.8	11.7	28.1	112.5	154.9	267.7	9.9	(NA)	9.1	94	85
INDUSTRY 2952.--ASPHALT FELTS AND COATINGS															
1972 Census.....	236	141	15.6	149.0	11.5	26.5	103.4	443.8	573.9	1,011.4	19.7	(NA)	64.7	93	96
1971 ASM.....	(NA)	(NA)	14.4	127.8	10.4	23.7	87.3	376.1	508.0	879.8	15.8	238.3	54.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	14.2	114.8	10.2	23.0	78.3	259.9	431.5	691.2	*11.8	229.0	50.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	13.8	109.5	9.9	23.3	75.5	249.2	404.7	654.7	8.8	219.7	47.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	14.0	102.8	10.1	22.9	70.8	241.5	394.9	633.4	*13.1	211.8	46.2	(NA)	(NA)
1967 Census.....	226	138	14.4	96.3	10.4	22.9	66.2	221.1	373.8	597.8	8.8	210.6	42.4	91	95
1966 ASM.....	(NA)	(NA)	14.7	91.3	10.7	23.0	65.8	226.3	366.1	589.4	9.6	(NA)	48.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	14.7	89.2	11.0	23.5	65.3	219.0	364.3	585.0	10.9	(NA)	42.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	14.6	87.1	10.9	23.8	61.3	207.2	364.7	573.4	8.7	218.8	44.3	(NA)	(NA)
1963 Census.....	230	140	14.6	82.5	10.9	23.0	57.3	190.0	339.0	527.6	7.0	214.4	43.0	90	92
1962 ASM.....	(NA)	(NA)	*13.3	*78.5	*9.5	*20.4	*54.5	*180.1	*313.8	*494.1	*21.8	206.1	*39.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*13.1	*74.0	*9.4	*19.6	*51.1	*184.0	*296.3	*474.9	*7.8	(NA)	*39.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*17.3	*97.9	*13.6	*27.9	*70.4	*242.8	*310.6	*555.6	*13.1	(NA)	*35.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*15.2	*80.4	*11.4	*24.3	*56.9	*178.8	*317.0	*495.3	*6.8	(NA)	*38.4	(NA)	(NA)
1958 Census.....	209	128	15.5	77.4	11.5	24.0	54.0	156.5	304.4	460.1	6.6	(NA)	37.4	90	92
INDUSTRY 2992.--LUBRICATING OILS AND GREASES															
1972 Census.....	443	117	8.1	83.3	4.4	8.6	36.2	295.8	408.9	703.1	13.7	(NA)	80.9	94	40
1971 ASM.....	(NA)	(NA)	6.4	68.1	3.2	6.4	27.5	233.8	317.6	544.2	10.4	159.6	70.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	7.7	74.0	4.0	8.2	29.6	249.6	306.8	551.0	13.8	165.2	65.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	7.8	75.0	4.1	8.4	30.3	255.2	307.1	553.5	13.5	128.6	64.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	7.1	59.3	3.8	7.4	24.6	215.0	285.7	499.2	8.0	121.1	55.5	(NA)	(NA)
1967 Census.....	298	109	7.3	58.0	3.9	7.9	24.3	200.7	284.6	487.3	8.5	117.1	53.3	94	32
1966 ASM.....	(NA)	(NA)	8.0	62.4	4.3	8.4	26.5	220.4	309.1	527.3	7.7	(NA)	57.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	7.9	56.8	4.3	8.7	25.4	212.9	285.8	498.9	*7.0	(NA)	52.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	8.6	60.9	4.9	10.1	29.1	197.2	265.8	466.8	*5.3	137.9	50.5	(NA)	(NA)
1963 Census.....	353	108	8.4	57.9	4.7	9.8	27.0	199.1	273.8	471.2	4.7	135.9	52.0	91	33
1962 ASM.....	(NA)	(NA)	*6.8	*45.7	*4.0	*8.8	*21.7	*114.6	*222.6	*336.4	*2.5	133.6	*39.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*6.6	*44.0	*3.8	*8.8	*20.4	*107.0	*207.7	*316.3	*10.0	(NA)	*39.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*7.8	*50.5	*4.8	*10.3	*24.4	*128.4	*221.0	*349.1	*3.3	(NA)	*42.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.9	47.9	4.7	10.2	22.8	115.1	215.0	329.0	*4.9	(NA)	*40.4	(NA)	(NA)
1958 Census.....	306	90	7.6	42.3	4.5	8.6	20.4	103.1	117.5	281.4	*7.2	(NA)	*36.8	86	35

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 2999.--PETROLEUM AND COAL PRODUCTS, N.E.C.															
1972 Census.....	51	17	1.1	10.6	0.9	1.8	7.5	56.3	81.6	137.6	3.0	(NA)	36.7	99	91
1971 ASM.....	(NA)	(NA)	1.5	12.0	1.2	2.3	8.7	47.9	78.6	123.8	10.3	54.1	23.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	1.5	10.9	1.2	2.2	8.1	40.0	79.4	119.0	9.7	44.2	17.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	1.3	8.5	1.0	2.0	6.3	30.8	63.9	94.4	.7	(S)	13.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	1.2	7.9	.9	1.9	5.9	28.0	57.9	85.3	1.5	26.8	12.1	(NA)	(NA)
1967 Census.....	47	15	1.1	6.9	.8	1.7	5.2	24.4	56.2	79.8	1.8	25.5	10.0	99	92
1966 ASM.....	(NA)	(NA)	1.2	6.7	.9	1.8	5.0	22.0	42.7	65.0	.6	(NA)	12.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	1.1	6.6	.8	1.7	4.5	22.6	42.5	64.6	.4	(NA)	15.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	1.5	9.0	1.2	2.4	6.5	23.1	49.5	72.1	.7	31.1	16.4	(NA)	(NA)
1963 Census.....	67	17	1.5	9.0	1.2	2.4	6.5	21.0	49.6	71.5	1.8	30.7	15.3	96	91
1962 ASM.....	(NA)	(NA)	*3.0	*14.0	*2.5	*4.8	*10.1	*33.8	*71.3	*103.2	*4.6	28.9	*23.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*3.0	*13.2	*2.5	*4.5	*9.4	*37.2	*68.1	*102.6	*4.6	(NA)	*22.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*3.1	*15.3	*2.5	*6.1	*10.9	*32.5	*68.1	*99.7	*1.3	(NA)	*21.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*2.5	*11.0	*2.1	*3.9	*8.1	*29.2	*49.9	*78.6	*1.9	(NA)	*18.9	(NA)	(NA)
1958 Census.....	84	33	2.3	10.5	1.8	3.4	7.6	26.9	48.7	74.9	1.3	(NA)	19.6	95	96

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 2911	Industry 2951	Industry 2952	Industry 2992	Industry 2999
1972.....	154	586	117	387	42
1967.....	276	553	115	256	38
1963.....	266	528	126	311	59

(NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 2911.--PETROLEUM REFINING											
1972 Census.....	12,372	(NA)	71	1,999	5.74	.82	.86	(NA)	45,582	27	32.29
1971 ASM.....	11,528	148,061	70	2,001	5.34	.82	.87	.64	43,241	27	31.03
1970 ASM.....	10,782	137,155	70	2,025	4.93	.80	.85	.65	42,785	25	30.18
1969 ASM.....	10,100	127,910	70	1,938	4.68	.78	.83	.61	45,831	22	33.79
1968 ASM.....	9,570	121,000	70	2,020	4.37	.78	.82	.61	45,180	21	31.77
1967 Census.....	9,047	113,510	71	2,005	4.17	.77	.82	.60	44,487	20	31.30
1966 ASM.....	8,421	(NA)	72	1,965	3.99	.78	.83	(NA)	38,315	22	27.23
1965 ASM.....	8,093	(NA)	72	1,953	3.85	.80	.85	(NA)	32,195	25	22.95
1964 ASM.....	7,962	90,410	72	1,986	3.73	.81	.86	.61	28,057	28	19.69
1963 Census.....	7,731	85,350	72	1,937	3.69	.81	.87	.61	26,301	29	18.85
1962 ASM.....	7,374	79,750	71	1,974	3.48	.82	.87	.62	24,121	31	17.11
1961 ASM.....	7,281	(NA)	72	1,972	3.46	.82	.88	(NA)	22,759	32	16.08
1960 ASM.....	6,939	(NA)	72	1,978	3.30	.82	.88	(NA)	20,564	34	14.42
1959 ASM.....	6,886	(NA)	73	1,959	3.29	.84	.90	(NA)	17,926	38	12.54
1958 Census.....	6,467	(NA)	73	1,942	3.12	.84	.91	(NA)	14,514	45	10.21

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2951.--PAVING MIXTURES AND BLOCKS											
1972 Census.....	10,626	(NA)	72	2,140	4.71	.57	.73	(NA)	29,000	37	18.84
1971 ASM.....	10,177	29,760	64	2,089	4.59	.58	.74	.46	27,839	37	20.92
1970 ASM.....	9,085	27,120	68	2,125	3.87	.57	.72	.47	24,837	37	17.13
1969 ASM.....	8,440	25,900	68	2,253	3.60	.59	.75	.47	22,491	38	14.66
1968 ASM.....	7,707	25,000	71	2,049	3.47	.61	.75	.47	21,017	37	14.51
1967 Census.....	7,401	22,670	70	2,103	3.25	.60	.75	.47	19,309	38	13.06
1966 ASM.....	6,792	(NA)	74	1,930	3.14	.61	.76	(NA)	17,912	38	12.47
1965 ASM.....	6,698	(NA)	74	2,148	2.80	.61	.75	(NA)	18,224	37	11.53
1964 ASM.....	6,507	17,700	69	2,230	2.73	.64	.79	.40	16,280	40	10.64
1963 Census.....	6,412	17,140	70	2,235	2.65	.61	.76	.39	17,106	37	10.98
1962 ASM.....	6,313	18,510	75	2,263	2.50	.58	.73	.45	17,548	36	10.37
1961 ASM.....	6,053	(NA)	76	2,210	2.51	.59	.75	(NA)	15,167	40	9.04
1960 ASM.....	5,863	(NA)	76	2,166	2.47	.57	.72	(NA)	16,567	35	10.06
1959 ASM.....	5,469	(NA)	74	2,032	2.34	.57	.74	(NA)	13,915	39	9.30
1958 Census.....	5,390	(NA)	75	2,011	2.40	.58	.74	(NA)	14,435	37	9.61
INDUSTRY 2952.--ASPHALT FELTS AND COATINGS											
1972 Census.....	9,551	(NA)	74	2,304	3.91	.57	.72	(NA)	28,448	34	16.75
1971 ASM.....	8,875	16,550	72	2,279	3.68	.58	.72	.27	26,118	34	15.87
1970 ASM.....	8,085	16,130	72	2,255	3.40	.62	.79	.33	18,303	44	11.30
1969 ASM.....	7,935	15,920	72	2,354	3.24	.62	.79	.34	18,058	44	10.70
1968 ASM.....	7,343	15,130	72	2,267	3.09	.62	.79	.33	17,250	43	10.55
1967 Census.....	6,706	14,630	73	2,200	2.89	.63	.79	.35	15,400	44	9.64
1966 ASM.....	6,225	(NA)	73	2,141	2.86	.62	.78	(NA)	15,437	40	9.84
1965 ASM.....	6,076	(NA)	75	2,141	2.77	.62	.78	(NA)	14,921	41	9.30
1964 ASM.....	5,946	14,990	74	2,186	2.57	.64	.79	.38	14,149	42	8.69
1963 Census.....	5,656	14,680	75	2,115	2.49	.64	.80	.41	13,029	43	8.24
1962 ASM.....	5,899	15,500	72	2,142	2.67	.64	.79	.42	13,542	44	8.84
1961 ASM.....	5,647	(NA)	72	2,080	2.60	.62	.78	(NA)	14,046	40	9.37
1960 ASM.....	5,647	(NA)	79	2,045	2.53	.56	.74	(NA)	14,009	40	8.71
1959 ASM.....	5,279	(NA)	75	2,130	2.34	.64	.80	(NA)	11,748	45	7.36
1958 Census.....	4,990	(NA)	74	2,080	2.25	.66	.83	(NA)	10,083	49	6.52
INDUSTRY 2992.--LUBRICATING OILS AND GREASES											
1972 Census.....	10,284	(NA)	54	1,955	4.21	.58	.70	(NA)	36,519	28	34.40
1971 ASM.....	10,641	24,940	50	2,000	4.30	.58	.71	.29	36,531	29	36.53
1970 ASM.....	9,610	21,450	52	2,050	3.61	.56	.69	.30	32,416	30	30.44
1969 ASM.....	8,611	17,860	51	1,919	3.59	.59	.71	.25	29,528	29	29.94
1968 ASM.....	8,352	17,060	54	1,947	3.32	.57	.69	.24	30,282	28	29.05
1967 Census.....	7,905	16,040	54	1,996	3.10	.58	.70	.24	27,337	29	25.54
1966 ASM.....	7,767	(NA)	53	1,963	3.16	.59	.70	(NA)	27,448	28	26.26
1965 ASM.....	7,201	(NA)	55	1,998	2.93	.57	.69	(NA)	27,008	27	24.53
1964 ASM.....	7,087	16,030	58	2,043	2.88	.57	.70	.30	22,944	31	19.52
1963 Census.....	6,871	16,180	56	2,080	2.76	.58	.70	.29	23,607	29	20.36
1962 ASM.....	6,740	19,650	59	2,193	2.48	.66	.80	.40	16,888	40	13.06
1961 ASM.....	6,715	(NA)	58	2,296	2.32	.66	.80	(NA)	16,321	41	12.17
1960 ASM.....	6,444	(NA)	61	2,165	2.30	.63	.78	(NA)	16,406	39	12.42
1959 ASM.....	6,063	(NA)	59	2,169	2.24	.65	.80	(NA)	14,552	42	11.32
1958 Census.....	5,596	(NA)	59	1,915	2.38	.63	.78	(NA)	13,621	41	12.00
INDUSTRY 2999.--PETROLEUM AND COAL PRODUCTS, N.E.C.											
1972 Census.....	9,636	(NA)	82	2,000	4.17	.59	.67	(NA)	51,182	19	31.28
1971 ASM.....	8,000	36,060	80	1,917	3.78	.64	.73	.44	31,933	25	20.83
1970 ASM.....	7,267	29,470	80	1,833	3.68	.67	.76	.37	26,667	27	18.18
1969 ASM.....	6,538	(S)	77	2,000	3.15	.68	.77	(S)	23,692	28	15.40
1968 ASM.....	6,583	22,330	75	2,111	3.11	.68	.77	.31	23,333	28	14.74
1967 Census.....	6,358	23,180	78	2,067	2.99	.70	.79	.32	22,579	28	13.96
1966 ASM.....	5,791	(NA)	76	2,023	2.79	.66	.76	(NA)	19,096	30	12.36
1965 ASM.....	6,141	(NA)	79	2,011	2.65	.66	.76	(NA)	21,063	29	13.23
1964 ASM.....	6,159	20,730	78	2,096	2.70	.69	.81	.43	15,702	39	9.54
1963 Census.....	5,992	20,470	79	2,012	2.72	.69	.82	.43	14,039	43	8.86
1962 ASM.....	4,677	9,630	83	1,929	2.10	.69	.83	.28	11,319	41	7.05
1961 ASM.....	4,375	(NA)	82	1,824	2.08	.66	.79	(NA)	12,324	36	8.22
1960 ASM.....	4,923	(NA)	80	2,466	1.79	.68	.84	(NA)	10,461	47	5.32
1959 ASM.....	4,381	(NA)	82	1,886	2.09	.64	.78	(NA)	11,607	38	7.52
1958 Census.....	4,663	(NA)	78	1,956	2.20	.65	.79	(NA)	11,925	39	7.81

(NA) Not available.
of a consistency review.

(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)						
2911-- PETROLEUM REFINING													
UNITED STATES,	323	277	100.8	1 247.1	71.2	142.3	816.3	4 594.7	21 171.3	25 921.1	1 061.6	106.7	4 745.0
NORTHEAST REGION	38	29	14.0	167.2	10.1	19.5	115.8	543.0	2 691.8	3 257.7	161.3	14.7	439.3
NEW ENGLAND DIVISION	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	35	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA	18	15	9.0	102.3	6.6	12.5	73.8	262.8	1 397.6	1 678.2	107.9	9.9	256.5
NORTH CENTRAL REGION	65	59	20.9	262.2	14.5	29.8	165.3	1 076.0	4 561.8	5 664.7	260.4	23.4	1 014.7
EAST NORTH CENTRAL DIVISION,	45	39	16.2	206.8	11.1	22.7	130.2	808.9	3 521.6	4 350.3	231.8	18.2	752.3
OHIO	14	11	2.8	36.8	2.1	4.0	25.3	215.6	889.9	1 104.0	33.0	3.3	160.5
INDIANA,	7	7	5.2	69.4	3.4	7.3	40.2	183.8	904.2	1 102.8	32.8	6.3	197.6
ILLINOIS	13	12	6.4	79.0	4.6	9.1	52.6	277.6	1 387.8	1 666.2	125.3	6.5	295.2
MICHIGAN	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	93.4
WISCONSIN,	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	5.6
WEST NORTH CENTRAL DIVISION,	20	20	4.7	55.3	3.4	7.1	35.1	267.1	1 040.2	1 314.4	28.6	5.2	262.4
MINNESOTA,	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH DAKOTA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
KANSAS	12	12	2.8	31.0	2.2	4.5	21.4	148.9	603.8	758.9	20.7	FF	(D)
SOUTH REGION	137	119	47.4	586.3	34.0	69.1	388.7	2 090.3	10 154.8	12 350.2	451.7	49.1	2 500.0
SOUTH ATLANTIC DIVISION,	19	13	1.9	23.1	1.3	2.8	14.3	168.6	373.6	545.3	29.2	1.7	119.3
DELAWARE	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST VIRGINIA,	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION,	15	15	2.2	25.6	1.6	3.3	17.6	128.0	685.9	817.4	24.6	1.8	116.5
KENTUCKY	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE,	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ALABAMA,	5	5	.3	3.3	.3	.5	2.4	13.7	44.3	58.3	1.0	BB	(D)
MISSISSIPPI,	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION,	103	91	43.3	537.6	31.2	63.0	356.8	1 793.7	9 095.4	10 987.5	397.9	45.6	2 264.2
ARKANSAS	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	33.2
LOUISIANA,	25	22	8.5	112.2	5.4	11.3	65.1	408.7	2 397.2	2 813.4	178.7	9.0	326.9
OKLAHOMA	15	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	139.0
TEXAS,	59	53	30.1	375.7	22.1	44.5	253.9	1 277.4	5 903.7	7 254.7	(D)	31.0	1 765.1
WEST REGION,	83	70	18.4	231.3	12.5	24.0	146.5	885.4	3 763.0	4 648.6	188.2	19.4	790.9
MOUNTAIN DIVISION,	30	24	3.4	40.5	2.6	5.2	28.6	157.9	671.3	828.8	25.6	4.2	156.1
MONTANA,	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WYOMING,	10	7	1.3	15.1	1.0	2.1	11.2	51.8	204.3	254.2	9.0	1.7	36.4
COLORADO,	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEW MEXICO	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
UTAH	5	4	.6	7.6	.5	1.1	5.4	42.0	162.2	206.5	4.7	.9	49.5
PACIFIC DIVISION	53	46	14.9	190.8	9.9	18.7	117.9	727.5	3 091.7	3 819.8	162.5	15.2	634.8
WASHINGTON	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	39	35	13.2	166.8	8.8	16.6	104.3	615.2	2 523.3	3 148.4	101.8	13.9	496.6
HAWAII	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2951-- PAVING MIXTURES AND BLOCKS													
UNITED STATES, E1	964	169	13.9	147.7	10.0	21.4	100.8	403.1	527.2	922.6	56.3	12.2	234.7
NORTHEAST REGION E1	314	52	5.0	55.6	3.6	8.2	38.1	144.9	170.9	315.3	24.5	3.7	79.5
NEW ENGLAND DIVISION E1	65	14	1.4	15.3	1.1	2.3	10.7	34.1	42.2	76.3	8.2	.9	20.8
MAINE,	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS, E2	34	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT, E1	17	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION E1	249	38	3.5	40.3	2.5	5.9	27.4	110.8	128.7	239.0	16.2	2.7	58.7
NEW YORK	116	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	27.0
NEW JERSEY	41	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	14.5
PENNSYLVANIA	90	12	1.1	12.4	.8	1.6	6.9	30.2	45.1	75.0	4.5	1.1	17.3
NORTH CENTRAL REGION E1	250	50	3.3	36.1	2.3	4.8	24.6	95.0	139.0	233.5	11.0	3.4	59.2
EAST NORTH CENTRAL DIVISION,	196	38	2.5	28.1	1.7	3.6	18.6	73.0	118.5	191.1	7.7	3.0	53.1
OHIO	101	15	1.0	10.0	.7	1.4	7.0	26.1	55.8	81.5	3.6	.9	19.7
INDIANA,	30	12	.7	8.2	.4	.8	4.9	19.1	19.1	38.2	1.1	CC	(D)
ILLINOIS	26	6	.5	4.9	.3	.7	2.8	12.0	17.9	29.9	1.2	.6	11.1
MICHIGAN	26	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION, E2	54	12	.8	8.0	.6	1.3	6.0	22.0	20.6	42.5	3.4	.4	6.1
IOWA	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	18	5	.3	3.6	.2	.5	2.8	8.7	8.1	16.6	1.9	(NA)	(NA)
SOUTH REGION E1	257	40	3.3	27.1	2.6	5.3	18.5	81.0	133.4	214.4	9.2	3.5	59.7
SOUTH ATLANTIC DIVISION,	128	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	32.1
MARYLAND	21	6	.7	5.3	.5	.9	3.7	16.4	16.5	32.9	1.1	.7	13.2
WEST VIRGINIA, E3	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA,	28	5	.5	3.6	.4	.7	2.4	10.3	17.9	28.2	.8	.2	1.6
FLORIDA,	24	6	.3	2.9	.2	.5	1.8	7.1	14.7	21.9	1.2	.4	4.9
EAST SOUTH CENTRAL DIVISION, E1	74	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	14.0
TENNESSEE,	28	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.9
ALABAMA,	18	2	.2	1.2	.1	.3	.9	5.6	6.4	12.1	.8	.2	4.7
MISSISSIPPI,	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2951-- PAVING MIXTURES AND BLOCKS--CON.													
WEST SOUTH CENTRAL DIVISION, . . E2	55	13	.8	6.2	.6	1.4	4.4	15.4	24.9	40.2	2.0	.9	13.6
ARKANSAS	7	3	.2	1.6	.2	.4	1.2	2.5	4.1	6.4	1.0	(NA)	(NA)
OKLAHOMA	12	3	.2	1.4	.1	.3	.9	3.4	6.4	9.8	.3	(NA)	(NA)
TEXAS,	25	5	.3	2.3	.2	.5	1.6	7.4	11.4	18.8	.4	.6	9.0
WEST REGION,	143	27	2.3	28.7	1.6	3.0	19.7	82.3	83.9	159.3	11.6	1.6	36.3
MOUNTAIN DIVISION,	25	8	.6	6.7	.4	.9	4.8	20.4	17.0	37.4	2.3	.4	6.7
COLORADO	8	2	.3	2.9	.2	.5	2.5	8.3	3.1	11.5	1.0	(NA)	(NA)
ARIZONA,	9	4	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	118	19	1.7	22.3	1.1	2.1	14.8	61.9	66.9	121.9	7.4	1.2	29.6
WASHINGTON	15	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
OREGON	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	94	8	.8	10.0	.5	.9	6.4	29.1	49.9	78.6	5.1	.8	22.1
2952-- ASPHALT FELTS AND COATINGS													
UNITED STATES,	236	141	15.6	149.0	11.5	26.5	103.4	443.8	573.9	1 011.4	19.7	14.4	221.1
NORTHEAST REGION	41	20	2.5	26.6	1.9	4.6	19.5	76.6	110.2	185.7	3.7	2.6	41.7
NEW ENGLAND DIVISION	16	4	.6	5.6	.4	1.1	4.0	15.8	24.6	40.4	(D)	.6	8.6
MASSACHUSETTS,	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	25	16	2.0	21.0	1.5	3.6	15.5	60.8	85.6	145.2	(D)	2.0	33.1
NEW JERSEY	12	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA	7	4	.6	6.1	.5	1.1	4.8	23.2	26.4	49.7	.7	.7	13.1
NORTH CENTRAL REGION	68	45	5.6	55.3	4.4	9.9	40.5	153.1	194.9	344.8	8.8	5.6	89.1
EAST NORTH CENTRAL DIVISION,	51	33	4.6	47.0	3.6	8.1	34.1	125.2	157.8	280.2	5.3	4.7	76.2
OHIO	18	12	1.6	17.2	1.3	3.0	12.4	43.6	39.3	81.4	1.5	1.4	23.4
INDIANA	5	3	.2	2.2	.2	.4	1.7	7.1	9.8	16.7	.3	BB	(D)
ILLINOIS	21	15	2.6	26.0	2.0	4.5	19.2	71.8	102.5	173.1	3.4	3.0	46.2
MICHIGAN	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION,	17	12	1.0	8.3	.8	1.7	6.4	28.0	37.2	64.6	3.4	.9	12.9
MINNESOTA	5	4	.3	2.4	.2	.5	1.9	7.3	12.8	20.3	.6	.4	5.5
MISSOURI	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION	80	54	5.6	48.2	3.9	9.0	30.3	153.6	194.1	346.6	5.3	4.7	69.3
SOUTH ATLANTIC DIVISION,	31	18	1.6	14.0	1.3	2.7	10.1	56.0	79.5	135.6	2.1	1.3	23.9
MARYLAND	5	3	.2	1.8	.2	.3	1.2	6.3	9.3	15.7	.8	(NA)	(NA)
SOUTH CAROLINA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA	6	5	.6	5.1	.5	1.0	4.1	22.4	27.2	49.6	.4	.5	9.0
FLORIDA,	13	6	.3	2.3	.2	.5	1.6	13.6	17.1	30.7	.5	.2	3.5
EAST SOUTH CENTRAL DIVISION,	14	8	.9	7.0	.7	1.7	5.0	28.5	30.5	58.8	1.1	.9	11.4
TENNESSEE	0	4	.3	2.5	.2	.6	1.8	5.0	9.0	13.5	.5	AA	(D)
ALABAMA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	6.7
MISSISSIPPI,	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION,	35	28	3.1	27.1	2.0	4.5	15.2	69.0	84.1	152.2	2.1	2.5	34.0
ARKANSAS	5	5	.5	4.3	.4	1.0	3.0	8.3	13.5	21.5	.7	BB	(D)
LOUISIANA	6	5	.4	4.3	.3	.8	2.9	12.8	14.1	26.8	.1	.4	6.4
OKLAHOMA	4	3	.3	2.7	.3	.6	2.0	5.9	8.2	14.1	.2	AA	(D)
TEXAS,	20	15	1.8	15.8	.9	2.1	7.4	42.0	48.2	89.8	1.1	EE	(D)
WEST REGION,	47	22	1.9	18.9	1.4	2.9	13.0	60.4	74.7	134.3	1.9	1.5	21.0
MOUNTAIN DIVISION,	10	3	.2	1.6	.2	.3	1.1	5.7	9.1	14.9	.1	AA	(D)
COLORADO	4	2	.2	1.2	.1	.3	.9	5.0	7.2	12.2	.1	(NA)	(NA)
PACIFIC DIVISION	37	19	1.7	17.4	1.2	2.6	11.9	54.7	65.6	119.4	1.8	EE	(D)
OREGON	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA	26	14	1.4	14.0	1.0	2.1	9.6	42.1	48.6	90.2	1.3	1.0	14.7
2992-- LUBRICATING OILS AND GREASES													
UNITED STATES,	443	117	8.1	83.3	4.4	8.6	36.2	295.8	408.9	703.1	13.7	7.3	200.7
NORTHEAST REGION	106	36	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW ENGLAND DIVISION	20	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS,	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	86	33	2.4	27.3	1.3	2.6	11.9	61.7	115.1	197.7	(D)	2.3	56.1
NEW YORK	28	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEW JERSEY	23	10	.6	7.3	.4	.7	3.7	31.5	49.1	81.6	1.5	.7	11.6
PENNSYLVANIA	35	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION	149	47	3.0	32.2	1.6	3.1	13.9	142.4	161.5	303.0	5.2	3.3	102.7
EAST NORTH CENTRAL DIVISION,	111	34	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO	32	9	.6	6.5	.2	.5	2.3	22.5	26.1	48.9	.8	.8	21.0
ILLINOIS	33	11	.9	10.4	.4	.8	4.1	42.2	54.8	97.0	1.0	CC	(D)
MICHIGAN	25	8	.4	4.2	.2	.4	1.7	20.6	15.4	36.2	.6	.8	8.6
WISCONSIN,	14	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	5.8
WEST NORTH CENTRAL DIVISION,	38	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
KANSAS	8	4	.3	2.6	.2	.4	1.5	12.4	11.9	24.0	.5	AA	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture	
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages							
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
2992-- LUBRICATING OILS AND GREASES--CON.														
SOUTH REGION	E2	117	22	1.7	14.0	1.0	2.0	6.5	39.4	96.1	134.4	2.0	1.0	14.0
SOUTH ATLANTIC DIVISION.	E2	30	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.4
MARYLAND	E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	E3	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	E2	74	12	1.1	9.5	.6	1.3	4.4	27.6	78.0	104.4	(D)	CC	(D)
ARKANSAS	E2	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	E2	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
OKLAHOMA	E1	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS.	E7	47	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.5
WEST REGION.	E2	71	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION	E1	57	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA	E1	51	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2999-- PETROLEUM AND COAL PRODUCTS, NEC														
UNITED STATES.		51	17	1.1	10.6	.9	1.8	7.5	56.3	81.6	137.6	3.0	1.1	24.4
NORTH CENTRAL REGION		16	6	.4	3.7	.3	.6	2.5	11.5	18.7	30.4	.8	.7	10.6
EAST NORTH CENTRAL DIVISION.		16	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
OHIO	E3	6	2	.2	1.4	.1	.3	1.0	3.1	4.1	7.5	.5	(NA)	(NA)
SOUTH REGION		17	6	.5	4.3	.4	.8	3.2	23.4	40.0	62.8	1.4	.3	10.5
WEST SOUTH CENTRAL DIVISION.		9	4	.3	3.3	.3	.6	2.3	15.5	28.4	43.4	1.2	AA	(D)
TEXAS.		4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION.		8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION		7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA		7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those states where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Petroleum refining (SIC 2911)	Paving mixtures and blocks (SIC 2951)	Asphalt felts and coatings (SIC 2952)	Lubricating oils and greases (SIC 2992)	Petroleum and coal products, n.e.c. (SIC 2999)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	99	93	93	94	99
COVERAGE RATIO ²DO . . .	97	90	96	40	91
ESTABLISHMENTS, TOTALNUMBER .	323	964	236	443	51
WITH 1 TO 19 EMPLOYEESDO . .	46	795	95	326	34
WITH 20 TO 99 EMPLOYEESDO . .	100	153	83	106	15
WITH 100 EMPLOYEES OR MOREDO . .	177	16	58	11	2
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	100.8	13.9	15.6	8.1	1.1
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	1 247.1	147.7	149.6	83.3	10.6
PRODUCTION WORKERS:					
AVERAGE FOR YEAR 1,000	71.2	10.0	11.5	4.4	.9
MARCHDO . . .	70.7	7.5	10.8	4.2	.8
MAYDO . . .	71.4	10.6	11.4	4.3	.9
AUGUSTDO . . .	71.7	11.7	11.8	4.7	.9
NOVEMBERDO . . .	70.6	10.4	11.8	4.4	.9
MAN-HOURSMILLIONS .	142.3	21.4	26.5	8.6	1.5
JANUARY-MARCHDO . . .	35.4	3.3	6.2	2.1	.4
APRIL-JUNEDO . . .	36.1	5.8	6.6	2.4	.5
JULY-SEPTEMBERDO . . .	35.4	7.0	5.6	2.1	.5
OCTOBER-DECEMBERDO . . .	35.4	5.2	6.8	2.2	.5
WAGESMILLION DOLLARS .	816.3	100.8	103.4	36.2	7.5
COST OF MATERIALS, ETC., TOTALDO . .	21 171.3	527.2	573.9	408.9	31.6
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMEDDO . .	19 610.9	458.3	497.7	362.2	63.4
COST OF RESALESDO . . .	834.3	19.9	56.7	36.3	3.7
FUELS CONSUMEDDO . . .	438.8	24.0	13.4	2.9	3.4
PURCHASED ELECTRIC ENERGYDO . . .	192.0	10.4	5.7	2.0	.9
CONTRACT WORKDO . . .	95.3	14.7	.4	5.5	.1
VALUE OF SHIPMENTS, INCLUDING RESALESDO . .	25 921.1	922.6	1 011.4	703.1	137.6
VALUE OF RESALESDO . . .	909.9	27.9	70.8	47.1	9.7
VALUE ADDED BY MANUFACTUREDO . . .	4 594.7	403.1	443.8	295.8	56.3
MANUFACTURERS' INVENTORIES:					
BEGINNING OF YEAR, TOTALDO . . .	2 156.9	27.5	54.5	77.5	23.3
FINISHED PRODUCTSDO . . .	1 257.1	12.0	28.3	44.9	5.3
WORK IN PROCESSDO . . .	468.3	.9	1.4	6.6	.3
MATERIALS, SUPPLIES, FUEL, ETC.DO . . .	431.5	14.5	24.8	26.0	17.7
END OF YEAR, TOTALDO . . .	2 002.2	38.5	64.7	80.9	36.7
FINISHED PRODUCTSDO . . .	1 127.4	13.2	34.8	45.7	5.6
WORK IN PROCESSDO . . .	442.8	7.6	1.2	7.4	.2
MATERIALS, SUPPLIES, FUEL, ETC.DO . . .	432.0	17.7	28.7	27.8	30.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO . .	1 071.5	62.4	20.5	14.3	3.0
NEW PLANT AND EQUIPMENT, TOTALDO . . .	1 061.6	56.3	19.7	13.7	3.0
NEW STRUCTURES AND ADDITIONS TO PLANTDO . . .	603.4	14.6	3.2	3.5	.5
NEW MACHINERY AND EQUIPMENTDO . . .	458.1	41.8	16.5	10.2	2.5
USED PLANT AND EQUIPMENTDO . . .	9.9	6.0	.8	.6	.2

(Z) Less than half of the unit of measurement shown (under 50 thousand dollars).

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
2911-- PETROLEUM REFINING											
ESTABLISHMENTS, TOTAL.	323	100.8	1 247.1	71.2	142.3	816.3	4 594.7	21 171.3	25 921.1	1 061.6	2 002.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	7	.1	1.3	.1	.2	.9	6.7	37.0	42.9	1.0	1.6
5 TO 9 EMPLOYEES	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	25	.3	3.3	.3	.5	2.2	12.6	32.2	45.9	4.6	3.0
20 TO 49 EMPLOYEES	53	1.8	17.8	1.3	2.9	11.6	62.6	268.7	331.8	9.1	20.6
50 TO 99 EMPLOYEES	47	3.3	35.5	2.2	4.4	23.6	150.6	614.4	766.2	20.9	66.0
100 TO 249 EMPLOYEES	74	12.9	149.5	9.8	20.3	106.8	673.0	3 081.8	3 772.5	206.7	234.7
250 TO 499 EMPLOYEES	48	17.0	211.6	11.7	24.6	139.3	859.0	4 138.1	5 006.3	295.1	440.2
500 TO 999 EMPLOYEES	33	48.1	610.0	33.9	66.9	398.7	2 401.4	10 418.7	12 933.2	420.7	933.1
1,000 TO 2,499 EMPLOYEES	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE	5	17.2	217.9	11.8	22.8	134.0	428.9	2 580.5	3 022.4	103.4	253.1
2951-- PAVING MIXTURES AND BLOCKS											
ESTABLISHMENTS, TOTAL.	964	13.9	147.7	10.0	21.4	100.8	403.1	527.2	922.6	56.3	33.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	347	.9	9.1	.7	1.5	7.1	41.7	82.0	123.8	6.0	3.1
5 TO 9 EMPLOYEES	286	1.9	19.3	1.3	2.8	13.1	64.7	134.7	199.1	10.1	6.9
10 TO 19 EMPLOYEES	163	2.2	24.2	1.6	3.2	14.8	69.8	101.8	171.5	9.6	5.7
20 TO 49 EMPLOYEES	117	6.7	12.7	4.3	9.3	45.2	159.3	193.0	345.0	26.2	13.8
50 TO 99 EMPLOYEES	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	2	2.2	22.4	2.1	4.5	20.7	68.7	20.8	82.9	4.5	8.8
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	155	.6	5.5	.5	1.0	3.5	17.5	24.5	42.0	1.7	1.5
2952-- ASPHALT FELTS AND COATINGS											
ESTABLISHMENTS, TOTAL.	236	15.6	149.0	11.5	26.5	103.4	443.8	573.9	1 011.4	19.7	64.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	33	.1	.5	.1	.1	.4	1.7	2.4	4.6	.1	.3
5 TO 9 EMPLOYEES	26	.2	1.6	.1	.2	.9	5.3	8.9	14.2	.8	.7
10 TO 19 EMPLOYEES	36	.5	4.3	.3	.7	2.4	11.4	30.5	41.9	.8	2.6
20 TO 49 EMPLOYEES	52	1.8	14.6	1.3	2.6	8.9	41.3	78.5	120.2	2.2	7.8
50 TO 99 EMPLOYEES	31	2.2	19.0	1.6	3.6	12.8	56.8	79.6	134.9	2.0	10.0
100 TO 249 EMPLOYEES	50	10.8	103.9	8.1	19.3	78.1	327.3	374.0	695.6	13.7	43.4
250 TO 499 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	28	.1	.8	.1	.2	.5	1.7	2.9	4.6	.1	.3
2992-- LUBRICATING OILS AND GREASES											
ESTABLISHMENTS, TOTAL.	443	8.1	63.3	4.4	8.6	36.2	295.8	403.9	703.1	13.7	30.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	176	.3	3.1	.2	.3	1.3	11.8	17.8	29.6	.8	3.3
5 TO 9 EMPLOYEES	80	.6	5.1	.3	.6	2.3	18.8	19.8	38.8	.8	4.0
10 TO 19 EMPLOYEES	70	1.0	10.0	.5	1.0	4.4	35.8	77.8	112.7	1.8	12.9
20 TO 49 EMPLOYEES	75	2.3	23.6	1.2	2.4	9.7	101.9	109.8	210.6	4.6	21.4
50 TO 99 EMPLOYEES	31	2.2	21.8	1.2	2.3	9.5	57.6	84.3	142.6	2.7	15.8
100 TO 249 EMPLOYEES	10	1.8	19.9	1.0	2.0	9.0	69.9	99.4	168.7	3.0	23.6
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	160	.4	3.8	.2	.4	1.4	11.1	15.4	26.6	.6	3.1
2999-- PETROLEUM AND COAL PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL.	51	1.1	10.6	.9	1.8	7.5	56.3	81.6	137.6	3.0	36.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	11	.1	.9	.1	.1	.6	5.8	5.6	11.5	.5	.9
5 TO 9 EMPLOYEES	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	12	.2	1.4	.1	.3	1.0	3.6	8.2	11.8	.4	2.1
20 TO 49 EMPLOYEES	12	.9	8.3	.7	1.4	5.9	46.8	67.9	114.3	2.1	33.7
50 TO 99 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	8	(Z)	.2	(Z)	(Z)	.2	.4	.8	1.1	.1	.2

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
2911	PETROLEUM REFINING										
	ENTIRE INDUSTRY	323	100.8	1 247.1	71.2	142.3	816.3	4 594.7	21 171.3	25 921.1	1 061.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	310	96.9	1 197.4	68.5	136.7	784.4	4 473.2	20 507.8	25 120.3	1 040.1
29111	GASOLINE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	175	86.9	1 088.5	61.4	122.6	712.6	4 030.6	19 612.5	23 795.9	962.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	22	3.5	44.0	2.4	5.1	28.7	222.8	918.1	1 160.3	36.0
29112	JET FUEL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	8	.3	3.6	.2	.5	2.3	11.8	85.9	97.2	(D)
29114	DISTILLATE FUEL OIL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
29115	RESIDUAL FUEL OIL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	13	.6	7.2	.5	1.0	4.7	32.6	171.9	203.9	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
29116	LIQUEFIED REFINERY GASES (FEED STOCK, OTHER USES) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	4.0	51.4	2.5	5.0	30.2	222.6	423.0	645.5	14.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	8	1.4	17.0	1.0	1.9	11.2	53.8	152.8	205.0	3.0
29117	LUBRICATING OILS AND GREASES, MADE IN REFINERIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	16	2.8	29.4	2.1	4.0	20.5	73.9	265.9	339.1	35.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
29118	UNFINISHED OILS AND LUBRICATING OIL BASE STOCK (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	12	1.5	16.5	1.1	2.2	11.8	25.2	214.6	241.2	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	4	.9	11.1	.7	1.3	7.8	12.1	136.3	149.6	2.6
29119	ASPHALT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	36	1.6	16.4	1.2	2.4	11.0	62.6	220.1	285.2	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	15	.5	6.0	.4	.8	4.4	26.3	64.7	93.0	2.4
2951	PAVING MIXTURES AND BLOCKS										
	ENTIRE INDUSTRY	964	13.9	147.7	10.0	21.4	100.8	403.1	527.2	922.6	56.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	889	11.0	119.6	7.9	17.1	81.3	341.6	466.2	800.7	48.5
2952	ASPHALT FELTS AND COATINGS										
	ENTIRE INDUSTRY	236	15.6	149.0	11.5	26.5	103.4	443.9	573.9	1 011.4	19.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	215	13.2	125.0	10.2	23.4	91.1	396.9	529.1	920.9	18.3
29521	ASPHALT, TAR SATURATED FELTS AND BOARDS, NONBLDS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	20	.6	4.7	.3	.7	2.1	9.8	13.4	23.3	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
29522	ROOFING ASPHALTS, PITCHES, COATINGS, AND CEMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	61	2.1	19.7	1.0	2.1	7.3	50.3	93.6	134.0	3.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	43	.9	8.4	.6	1.4	4.8	22.6	60.0	82.9	2.2
29523	ASPHALT AND TAR ROOFING AND SIDING PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	102	12.3	119.2	9.7	22.7	90.5	365.9	459.1	818.5	15.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	96	10.5	99.4	8.2	19.1	74.3	312.4	421.5	728.6	13.9
2992	LUBRICATING OILS AND GREASES										
	ENTIRE INDUSTRY	443	6.1	83.3	4.4	8.6	36.2	295.8	408.9	703.1	13.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	415	6.8	68.6	3.7	7.4	30.8	262.9	368.6	629.0	12.7
2999	PETROLEUM AND COAL PRODUCTS, NEC										
	ENTIRE INDUSTRY	51	1.1	10.6	.9	1.8	7.5	50.3	81.6	137.6	3.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	45	1.0	9.6	.8	1.7	6.8	54.3	80.1	134.2	2.8

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
2911	Petroleum refining.....1972..	25,921.1	24,590.1	322.3	1,008.7	99	¹ 25,414.8	24,590.1	¹ 824.7	² 97
	.....1967..	20,293.9	19,147.9	374.0	772.0	98	¹ 19,691.9	19,147.9	¹ 544.0	² 97
2951	Paving mixtures and blocks.....1972..	922.6	806.8	64.0	51.8	93	893.4	806.8	86.6	90
	.....1967..	584.6	505.4	39.3	39.9	93	529.6	505.4	24.2	95
2952	Asphalt felts and coatings.....1972..	1,011.4	869.5	67.8	74.1	93	902.2	869.5	32.7	96
	.....1967..	597.8	492.8	48.2	56.8	91	519.4	492.8	26.6	95
2992	Lubricating oils and greases.....1972..	703.1	612.6	36.2	54.2	94	1,536.7	612.6	924.1	² 40
	.....1967..	487.3	425.7	25.3	36.3	94	1,327.0	425.7	901.3	² 32
2999	Petroleum and coal products, n.e.c.....1972..	137.6	126.3	1.5	9.8	99	139.2	126.3	12.9	91
	.....1967..	79.8	73.5	.4	5.9	99	79.6	73.5	6.1	92

¹Includes lubricating oils and greases which are also primary to industry 2992, Lubricating Oils and Greases.

²A 1972 coverage ratio computed on the basis of including both industries to which lubricating oils and greases are primary would total 98 percent: 58 percent by industry 2911 and 40 percent by industry 2992. The remaining 2 percent was shipped by establishments in other industries. Computed on the basis of excluding industry 2911, the 1972 coverage ratio for industry 2992 is 95 percent.

³Included in the figures shown for this industry are lubricating oils and greases which are also primary to industry 2911, Petroleum Refining.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Petroleum refining (SIC 2911)	Paving mixtures and blocks (SIC 2951)	Asphalt felts and coatings (SIC 2952)	Lubricating oils and greases (SIC 2992)	Petroleum and coal products, n.e.c. (SIC 2999)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	25,921.1	922.6	1,011.4	703.1	137.6	(X)
2911-	Petroleum refining.....	24,772.8	24,590.1	(under 2)	(5-10)	8.4	(under 2)	168.6
29111	Gasoline.....	13,029.6	13,029.6	-	-	-	-	-
29112	Jet fuel.....	1,371.6	1,371.6	-	-	-	-	-
29113	Kerosene.....	372.4	(200-500)	-	-	-	-	(under 2)
29114	Distillate fuel oil.....	4,407.7	4,407.7	-	-	-	-	-
29115	Residual fuel oil.....	1,107.2	(1,000-1,500)	-	-	-	-	(under 2)
29116	Liquefied refinery gases (feed stock and other uses).....	1,152.9	1,019.6	-	-	(under 2)	-	(over 2)
29117	Lubricating oils and greases, made in refineries.....	894.8	894.8	-	-	-	-	-
29118	Unfinished oils and lubricating oil base stock.....	733.7	721.6	-	(5-10)	7.1	-	(under 2)
29119	Asphalt.....	671.5	670.2	(under 2)	-	(under 2)	-	(under 2)
29110	Other finished petroleum products, including waxes.....	1,031.4	999.5	-	-	(under 2)	(under 2)	30.3
2951-	Paving mixtures and blocks.....	893.4	(under 2)	806.8	10.3	-	-	(over 2)
2952-	Asphalt felts and coatings.....	902.2	-	(10-20)	869.5	(2-5)	-	(over 2)
29521	Asphalt and tarsaturated felts and boards for nonbuilding use	34.2	-	(under 2)	(20-50)	-	-	(under 2)
29522	Roofing asphalts and pitches, coatings, and cements.....	155.3	-	8.1	134.8	(2-5)	-	(over 2)
29523	Asphalt and tar roofing and siding products.....	690.6	-	(2-5)	679.7	-	-	(over 2)
29520	Asphalt felts and coatings, n.e.c.....	22.1	-	-	(20-50)	-	-	(under 2)
2992-	Lubricating oils and greases.....	642.0	-	-	(5-10)	612.6	-	(20-50)
2999-	Petroleum and coal products, n.e.c.....	139.2	(2-5)	-	-	(2-5)	126.3	7.4
	Other product shipments by 4-digit product group:							
1422-	Crushed and broken limestone.....	(X)	-	5.1	-	-	-	(X)
1429-	Crushed and broken stone, n.e.c.....	(X)	-	10.1	(under 2)	-	-	(X)
1442-	Construction sand and gravel.....	(X)	-	10.5	-	-	-	(X)
2048-	Prepared feeds, n.e.c.....	(X)	-	(2-5)	-	-	-	(X)
2643-	Bags, except textile bags.....	(X)	(2-5)	-	-	-	-	(X)
2819-	Industrial inorganic chemicals, n.e.c.....	(X)	18.3	-	-	(under 2)	-	(X)
2821-	Plastics materials and resins.....	(X)	(10-20)	-	-	(under 2)	-	(X)
2822-	Synthetic rubber.....	(X)	(10-20)	-	-	-	-	(X)
2843-	Surface-active agents.....	(X)	22.9	-	-	(5-10)	-	(X)
2851-	Paints and allied products.....	(X)	-	(under 2)	3.8	(2-5)	-	(X)
2865-	Cyclic crudes and intermediates.....	(X)	75.2	(2-5)	-	-	(under 2)	(X)
2869-	Industrial organic chemicals, n.e.c.....	(X)	110.3	-	-	(over 2)	-	(X)
2873-	Nitrogenous fertilizers.....	(X)	30.1	-	-	-	-	(X)
2891-	Adhesives and sealants.....	(X)	-	.5	4.5	(under 2)	-	(X)
2899-	Chemical preparations, n.e.c.....	(X)	(2-5)	(under 2)	.8	5.5	(under 2)	(X)
3079-	Miscellaneous plastics products.....	(X)	(over 2)	(under 2)	(under 2)	-	-	(X)
3273-	Ready-mixed concrete.....	(X)	-	14.9	(under 2)	-	-	(X)
3292-	Asbestos products.....	(X)	-	-	(20-50)	-	-	(X)
3293-	Gaskets, packing and sealing devices.....	(X)	-	-	(over 2)	-	-	(X)
3412-	Metal barrels, drums, and pails.....	(X)	(over 2)	-	-	-	-	(X)
	Other product shipments.....	(X)	2.7	3.9	4.9	3.3	(under 2)	(X)
	Miscellaneous receipts.....	(X)	1,008.7	51.8	74.1	54.2	9.8	(X)
93000	Commission receipts.....	(X)	69.9	11.4	(under 2)	(5-10)	(under 2)	(X)
99989	Resales.....	(X)	909.9	27.9	70.9	47.1	8.7	(X)
99980	Other miscellaneous receipts.....	(X)	28.9	12.5	(under 2)	(under 2)	(under 2)	(X)
	Listing of the other industries with over \$2 million shipments of the primary product							
2911-	2821 Plastics materials and resins.....	(X)	(X)	(X)	(X)	(X)	(X)	(10-20)
	2822 Synthetic rubber.....	(X)	(X)	(X)	(X)	(X)	(X)	(5-10)
	2843 Surface active agents.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
	2865 Cyclic crudes and intermediates.....	(X)	(X)	(X)	(X)	(X)	(X)	(10-20)
	2869 Industrial organic chemicals, n.e.c.....	(X)	(X)	(X)	(X)	(X)	(X)	132.6
2951-	1422 Crushed and broken limestone.....	(X)	(X)	(X)	(X)	(X)	(X)	19.0
	1429 Crushed and broken stone, n.e.c.....	(X)	(X)	(X)	(X)	(X)	(X)	8.8
	1442 Construction sand and gravel.....	(X)	(X)	(X)	(X)	(X)	(X)	9.9
	3273 Ready-mixed concrete.....	(X)	(X)	(X)	(X)	(X)	(X)	29.0
	3295 Minerals, ground or treated.....	(X)	(X)	(X)	(X)	(X)	(X)	2.8
2952-	2865 Cyclic crudes and intermediates.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
	2891 Adhesives and sealants.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
	3079 Miscellaneous plastics products.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
2992-	2079 Shortening and cooking oils.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
	2841 Soap and other detergents.....	(X)	(X)	(X)	(X)	(X)	(X)	2.7
	2842 Polishes and sanitation goods.....	(X)	(X)	(X)	(X)	(X)	(X)	4.9
	2899 Chemical preparations, n.e.c.....	(X)	(X)	(X)	(X)	(X)	(X)	5.1
2999-	3334 Primary aluminum.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972				1967			
			Receipts ¹	Total product shipments including interplant transfers		Net shipments ²	Receipts ¹	Total product shipments including interplant transfers		Net shipments ²
				Quantity	Value (excluding tax) (million dollars)			Quantity	Value (excluding tax) (million dollars)	
2911- -- 2992- --	} PETROLEUM PRODUCTS, TOTAL.....	.....	(X)	(X)	25,414.8	(X)	(X)	(X)	19,691.9	(X)
29111 --	Gasoline.....	Mil.bbl.	(NA)	2,396.8	13,029.6	(NA)	(NA)	1,880.1	9,844.2	(NA)
29111 11	Aviation gasoline, except jet fuel.....	...do...	(S)	53.6	305.5	(S)	(S)	47.6	278.8	(S)
29111 31	Motor gasoline.....	...do...	40.9	2,343.2	12,724.1	2,302.3	22.2	1,832.5	² 9,565.4	1,810.3
29111 98	Other finished gasolines, including finished base ⁴..	...do...	-	-	-	-	(X)	(X)	(³)	(X)
29112 --	Jet Fuel.....	Mil.bbl.	8.9	310.9	1,371.6	302.2	2.8	275.2	1,100.4	272.4
29112 11	Naphtha type.....	...do...	2.3	66.8	283.0	64.5	.1	107.0	437.9	106.9
29112 13	Kerosene type.....	...do...	6.6	244.3	1,088.6	237.7	2.7	168.2	662.5	165.5
29113 --	Kerosene:									
29113 11	Kerosene, except jet fuel.....	Mil.bbl.	4.6	81.4	372.4	76.8	5.1	103.0	430.5	97.9
29114 --	Distillate Fuel Oil:									
29114 11	Distillate fuel oil, including grades No. 1, 2, and 4 light diesel-type, light gas-enrichment, oils, etc.	...do...	18.8	1,032.8	4,407.7	1,014.0	19.8	871.1	3,305.7	851.3
29115 --	Residual Fuel Oil:									
29115 11	Residual fuel oil, including grades No. 5 and 6, heavy diesel-type, heavy gas-enrichment oils, etc.....	...do...	58.8	336.8	1,107.2	278.0	25.7	277.0	566.1	251.3
29116 --	Liquefied Refinery Gases (Feedstock and Other Uses).. Chemical raw material, including synthetic rubber components: ⁵	...do...	(S)	(S)	1,152.9	(S)	(S)	(S)	1,135.7	(S)
29116 11	Liquefied refinery gases.....	...do...	(S)	(S)	586.7	(S)	(S)	(S)	624.9	(S)
29116 31	Other aliphatics, including feedstock mixtures...	...do...	(S)	(S)	383.5	(S)	(S)	(S)	362.6	(S)
29116 51	Other uses:									
29116 71	Liquefied refinery gases.....	...do...	}	(S)	182.7	(S)	(S)	(S)	119.1	(S)
	Other aliphatics.....	...do...					(S)	(S)	29.2	(S)
29118 --	Unfinished Oils and Lubricating Oil Base Stock ⁶	Mil.bbl.	(NA)	(NA)	733.5	(NA)	130.4	141.9	613.2	22.9
29118 12	Unfinished oils: ⁷									
29118 12	Naphthenic oils.....	...do...	50.1	22.4	89.2	23.7	} 109.6	104.0	324.1	5.6
29118 14	Paraffinic oils.....	...do...	26.6	44.7	163.2	18.1				
29118 15	Naphtha and other oils for use as petrochemical feedstocks.....	...do...	8.6	41.4	154.9	32.8	6.0	13.3	83.5	7.3
	Lubricating oil petroleum base stocks (for blending, compounding, and grease manufacture): ⁸									
29118 53	Naphthenic oils.....	...do...	.2	10.5	106.5	10.3	} 14.8	24.6	205.6	9.8
29118 55	Paraffinic oils.....	...do...	7.0	21.4	219.1	14.4				
29118 00	Unfinished oils and lubricating oil base stock, n.s.k.	.....	(NA)	(NA)	.8	(NA)	(NA)	(NA)	(NA)	(NA)
29119 --	Asphalt.....	Mil.bbl.	(NA)	(NA)	671.5	(NA)	4.6	138.5	424.2	133.9
29119 11	200 penetration and over, including emulsified asphalt produced at the refinery ⁹.....	...do...	45.1	48.2	191.6	3.1	.2	43.3	134.2	43.1
29119 51	Less than 200 penetration ¹⁰.....	...do...	10.4	116.7	476.5	106.3	4.4	95.2	289.9	90.8
29119 00	Asphalt, n.s.k.....	.....	(X)	(X)	3.4	(X)	(NA)	(NA)	(NA)	(NA)
29110 --	Other Finished Petroleum Products, Including Waxes...	Mil.bbl.	(X)	(X)	1,031.4	(X)	(X)	(X)	¹¹ 944.9	(X)
29110 11	Petrolatum.....	...do...	.6	1.6	20.0	1.0	.4	3.6	44.4	3.2
29110 21	Petroleum coke.....	1,000 s. tons.	(S)	(S)	122.3	(S)	(S)	(S)	85.6	(S)
29110 31	Road oil ¹²	Mil.bbl.	(S)	8.5	34.2	(S)	(D)	6.8	23.5	(D)
29110 41	Still gas.....	Million cu. ft.	-	23.5	16.8	23.5	(S)	(S)	7.0	(S)
29110 51	Special naphthas ¹³	Mil.bbl.	.3	17.8	84.2	17.5	.7	15.4	87.5	14.7
29110 55	Aromatics ⁵.....	...do...	-	71.4	487.7	71.4	(S)	82.4	463.0	(S)
	Wax:									
29110 61	Microcrystalline ¹⁴.....	...do...	(S)	1.8	32.7	(S)	.2	1.5	30.5	1.3
29110 71	Crystalline, fully refined.....	...do...	.1	3.9	56.2	3.8	.1	3.2	44.8	3.1
29110 81	Crystalline, other.....	...do...	(S)	(S)	20.0	(S)	-	1.4	20.8	1.4
29110 98	Other finished petroleum products.....	...do...	(S)	(S)	106.9	(S)	(S)	(S)	94.4	(S)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972				1967			
			Receipts ¹	Total product shipments including interplant transfers		Net shipments ²	Receipts ¹	Total product shipments including interplant transfers		Net shipments ²
				Quantity	Value (excluding tax) (million dollars)			Quantity	Value (excluding tax) (million dollars)	
2911- -- 2992- --	PETROLEUM PRODUCTS—Continued									
29110 00	Products of petroleum refining, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	50.4	(X)	(X)	(X)	¹ 38.6	(X)
29110 02	Products of petroleum refining, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	-	(X)	(X)	(X)	¹ 4.9	(X)
29117 -- 29920 --	Lubricating oils and greases.....		(X)	(X)	1,536.7	(X)	(X)	(X)	1,327.0	(X)
29117 21	Lubricants and similar oils ¹⁵	Mil.bbl.	10.6	69.1	1,301.2	58.5	3.6	65.9	1,183.5	62.3
	Made in petroleum refineries.....	do.	4.5	49.6	841.7	45.1	1.6	52.1	829.5	50.5
29920 21	Made in lubricating oils and greases industry.....	do.	6.1	19.5	459.5	13.4	2.0	13.8	354.0	11.8
	Made in other manufacturing industries.....	do.								
	Lubricating greases ¹⁶	do.	.6	3.7	125.6	3.1	.1	3.5	120.6	3.4
29117 31	Made in petroleum refineries.....	do.	.1	2.0	53.1	1.9	-	2.1	54.1	2.1
29920 31	Made in lubricating oils and greases industry.....	do.	.5	1.7	72.5	1.2	.1	1.4	66.5	1.3
	Made in other manufacturing industries.....	do.								
29920 00	Lubricating oils and greases, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	83.3	(X)	(X)	(X)	16.7	(X)
29920 02	Lubricating oils and greases, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	26.6	(X)	(X)	(X)	6.2	(X)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
2951- --	PAVING MIXTURES AND BLOCKS, TOTAL.....		(X)	893.4	(X)	529.6
29510 --	Paving Mixtures and Blocks:					
	Liquid asphalt and tar paving materials:					
29510 11	Emulsified asphalt, including liquid additives.....	Million bbl...	12.1	72.4	16.3	71.2
29510 15	Other liquid asphalt and tar paving materials, including cut-backs.....	do.....	8.2	49.8	5.7	22.9
29510 51	Asphalt and tar paving mixtures and blocks, including bituminous or asphaltic concrete, and asphaltic paving cements.....		(X)	621.6	(X)	365.8
29510 98	Other paving mixtures and blocks, except brick, concrete, granite, or stone.....		(X)	11.3	(X)	9.4
29510 00	Paving mixtures and blocks, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	96.3	(X)	46.2
29510 02	Paving mixtures and blocks, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	42.0	(X)	14.1
2952- --	ASPHALT FELTS AND COATINGS, TOTAL.....		(X)	902.2	(X)	519.4
29521 --	Asphalt and Tar Saturated Felts and Boards for Nonbuilding Use....		(X)	34.2	(X)	27.5
29521 11	Felts, for other than building purposes (automotive, etc.).....	1,000 s. tons.	(X)	7.8	139.7	10.3
29521 31	Asphalt and tar products, except felts, coatings, cement, for nonbuilding use (i.e., automotive, etc.).....	do.....	(S)	23.8	(S)	15.1
29521 00	Asphalt and tar saturated felts and boards for nonbuilding use, n.s.k.....		(X)	2.6	(X)	2.1
29522 --	Roofing Asphalts and Pitches, Coatings, and Cements.....		(X)	155.3	(X)	101.4
29522 12	Roofing asphalt.....	1,000 s. tons.	2,202.7	82.9	1,535.5	43.1
29522 31	Coal tar roofing pitch (made from purchased pitch).....		25.0	1.8	(X)	(¹⁷)
	Asphaltic roof coatings and cements:					
29522 51	Fibrated asphaltic coatings.....	Million gal...	44.2	20.6	}	(S)
29522 55	Nonfibrated asphaltic coatings.....	do.....	(S)	12.9		(S)
29522 61	Asphaltic roofing cements.....	do.....	16.2	11.6		(S)
29522 98	Other roofing asphalts and pitches, coatings, and cements, including coal tar base coatings and cements.....		(X)	11.6	(X)	¹⁷ 11.3
29522 00	Asphalt and tar coatings, cements, and pitches, n.s.k.....		(X)	13.9	(X)	7.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2952- --	ASPHALT FELTS AND COATINGS—Continued					
29523 --	Asphalt and Tar Roofing and Siding Products.....		(X)	690.6	(X)	375.2
29523 11	Asphalt roofing: Smooth-surface roll roofing, including sanded, talc, mica, and other fine material surfacing, cap sheet, coated base sheet, and coated roofing sheet.....	Mil. sales sq..	23.7	50.5	16.9	26.5
29523 13	Mineral-surfaced roll roofing and cap sheet (including 19-inch selvage edged.).....	..do.....	13.8	44.0	13.7	30.5
	Shingles:					
29523 14	Self-sealing strip shingles 240 pounds or less.....	..do.....	49.3	388.1	19.1	114.9
29523 15	245 pounds or more.....	..do.....	1.5	17.4		
	Standard or regular strip shingles:					
29523 16	235 pounds or less.....	..do.....	7.5	57.8	23.3	119.5
29523 17	245 pounds or more.....	..do.....				
29523 18	Individual shingles, all styles.....	..do.....	3.0	25.8	4.0	20.7
	Asphalt siding products:					
29523 31	Roll form and shingle form, all patterns, felt base.....	..do.....	.1	.8	.4	1.1
29523 35	Mineral-surface insulating board base siding (all types and finished.).....	..do.....	(D)	(D)	.3	4.1
	Saturated felts:					
29523 51	Asphalt saturated, for built-up roofing systems, and for sheathing.....	1,000 s. tons.	871.5	78.2	864.6	47.7
29523 55	Tar saturated, for built-up roofing systems.....	..do.....	36.5	3.1	46.6	3.2
29523 98	Other prepared asphalt and tar products for roofing and siding, including board products and sheathings.....		(X)	(D)	(X)	2.8
29523 00	Asphalt and tar roofing and siding products, n.s.k.....		(X)	3.3	(X)	4.3
29520 00	Asphalt felts and coatings, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	17.5	(X)	12.4
29520 02	Asphalt felts and coatings, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	4.6	(X)	2.9
2999- --	PETROLEUM AND COAL PRODUCTS, N.E.C., TOTAL.....		(X)	139.2	(X)	79.6
29990 --	Petroleum and Coal Products, N.E.C.:					
29990 15	Packaged fuel and fuel briquettes, except wood charcoal briquettes.....	S. tons.....	(S)	9.9	(S)	11.5
29990 98	Other petroleum and coal products, including calcined petroleum coke.....		(X)	120.0	(X)	64.1
29990 00	Products of petroleum and coal, n.e.c., n.s.k., for companies with 10 employees or more. (See note.).....		(X)	8.1	(X)	2.9
29990 02	Products of petroleum and coal, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....		(X)	1.2	(X)	1.1

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Reporting companies were requested to classify items in the same manner as billed by the shipper regardless of how the refinery (or blending and compounding establishments) would otherwise classify them.

²Represents the difference between "Total shipments" (Quantity) and "Receipts" (Quantity).

³Code 29111 98 included with code 29111 31 for 1967.

⁴Includes all finished gasolines (other than aviation and automotive gasoline), finished base stocks, and blending agents such as alkylate, polymers (dimer, codimer, etc.), hydropolymers (hydrodimer, hydrocodimer, etc.), cumene, isopetane, isohexane, neohexane, isoheptane, iso-octane, motor benzol (benzene), and other blending agents derived from petroleum (excludes natural gasoline).

⁵Detailed product statistics for liquefied gases used as chemical raw material are published by the U.S. International Trade Commission in the report "Synthetic Organic Chemicals, United States Production and Sales."

⁶Although respondents were requested to report receipts in the same manner as billed by the shipper, the figures indicate that items billed as other oils by the shipper were sometimes reported as receipts of "unfinished oils" or "lubricating oil base stock" for the refinery receiving these oils.

⁷Includes such products as cracking stock, unfinished gasoline requiring further distillation, naphtha stocks, soaps, wax distillate, and other unfinished petroleum oils. Excludes lubricating oil base stocks, natural gasoline, and cycle condensates.

⁸Includes light, medium, neutral, heavy neutral, and residual stocks.

⁹Includes flux for paving, roofing, waterproofing, mastic, and other purposes; cut-back asphalt, emulsified asphalt, and fluxes made in petroleum refineries; and other liquid asphaltic products except road oil and fuel oil used for heating purposes.

¹⁰Includes asphalt for paving, roofing, waterproofing, briquetting, mastic, pipe coating, molding composition, and other heavy asphalt products.

¹¹Product codes 29110 00 and 29110 02 included in figures for code 29110.

¹²Represents residual asphaltic oil used for surface treatment of roads and highways.

¹³Includes petroleum ether, rubber solvent, mineral spirits (petroleum spirits), varnish makers' and painters' naphtha, high-solvency naphtha, benzol diluent, lacquer diluent, cleaners' naphtha, stoddard solvent, extraction solvents, and other petroleum distillates shipped as solvents.

¹⁴Represents amorphous paraffin of melting point not under 145°.

¹⁵Includes oils for lubricating purposes and such nonlubrication purposes as transformer oil, hydraulic oil, processing oil, quenching oil, and liquid rust preventative.

¹⁶Includes greases for aviation, automotive, industrial, and railroad uses: launching grease; and cutting, drawing, and grinding compounds and paste. Also includes paste rust-preventative compounds and thread compounds.

¹⁷Code 29522 31 combined with code 29522 98 for 1967.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
GASOLINE (29111)			JET FUEL (29112)--Continued		
United States.....	13,029.6	9,844.2	South Region--Continued		
Northeast Region.....	1,514.1	1,115.2	West South Central Division.....	604.1	517.9
New England Division.....	FF	(NA)	Louisiana.....	197.9	163.2
Massachusetts.....	FF	(NA)	Oklahoma.....	FF	49.3
Middle Atlantic Division.....	GG	1,115.2	Texas.....	359.6	305.0
New York.....	GG	GG	West Region.....	416.3	320.8
New Jersey.....	609.8	GG	Mountain Division.....	42.1	34.3
Pennsylvania.....	778.6	605.5	Montana.....	CC	EE
North Central Region.....	3,285.3	2,572.1	Wyoming.....	12.5	CC
East North Central Division.....	2,501.9	1,932.8	Colorado.....	CC	BB
Ohio.....	700.1	563.3	New Mexico.....	BB	CC
Indiana.....	582.3	463.8	Utah.....	EE	CC
Illinois.....	1,010.6	754.8	Pacific Division.....	374.1	286.6
Michigan.....	GG	GG	Washington.....	50.6	FF
Wisconsin.....	FF	EE	California.....	294.0	GG
West North Central Division.....	783.4	639.3	Alaska.....	CC	CC
Minnesota.....	GG	GG	Hawaii.....	FF	EE
Missouri.....	GG	GG			
North Dakota.....	GG	GG	KEROSENE (29113)		
Nebraska.....	CC	BB	United States.....	372.4	430.5
Kansas.....	461.6	407.6	Northeast Region.....	34.0	53.2
South Region.....	5,949.7	4,448.5	New England Division.....	AA	-
South Atlantic Division.....	GG	GG	Massachusetts.....	AA	-
Delaware.....	GG	GG	Middle Atlantic Division.....	FF	53.2
Virginia.....	GG	GG	New York.....	CC	BB
West Virginia.....	CC	BB	New Jersey.....	11.8	FF
East South Central Division.....	GG	GG	Pennsylvania.....	15.3	25.6
Kentucky.....	GG	GG	North Central Region.....	101.7	89.8
Tennessee.....	FF	EE	East North Central Division.....	GG	GG
Alabama.....	BB	BB	Ohio.....	14.3	14.9
Mississippi.....	GG	GG	Indiana.....	FF	FF
West South Central Division.....	5,308.4	GG	Illinois.....	26.3	30.2
Arkansas.....	BB	GG	Michigan.....	EE	CC
Louisiana.....	1,371.3	816.6	Wisconsin.....	BB	BB
Oklahoma.....	GG	432.0	West North Central Division.....	EE	EE
Texas.....	3,392.2	2,643.4	Missouri.....	CC	CC
West Region.....	2,280.4	1,708.4	North Dakota.....	CC	BB
Mountain Division.....	480.5	381.2	Kansas.....	4.9	2.8
Montana.....	143.8	97.5	South Region.....	223.3	274.5
Wyoming.....	139.4	98.7	South Atlantic Division.....	CC	CC
Colorado.....	FF	FF	Delaware.....	BB	BB
New Mexico.....	FF	FF	Virginia.....	AA	AA
Utah.....	122.8	111.8	East South Central Division.....	EE	EE
Pacific Division.....	1,799.9	1,327.2	Kentucky.....	EE	CC
Washington.....	GG	GG	West South Central Division.....	203.6	GG
California.....	1,458.5	1,063.2	Louisiana.....	79.2	GG
Hawaii.....	FF	FF	Texas.....	123.1	161.8
			West Region.....	13.4	12.9
JET FUEL (29112)			Mountain Division.....	CC	5.4
United States.....	1,371.6	1,100.4	Montana.....	BB	AA
Northeast Region.....	65.8	75.7	Wyoming.....	BB	AA
Middle Atlantic Division.....	65.8	75.7	Pacific Division.....	CC	7.5
New York.....	BB	CC	Washington.....	BB	-
New Jersey.....	36.6	FF	California.....	3.6	CC
Pennsylvania.....	FF	37.9			
North Central Region.....	224.6	141.8	DISTILLATE FUEL OIL (29114)		
East North Central Division.....	191.6	112.7	United States.....	4,407.7	3,305.7
Ohio.....	FF	FF	Northeast Region.....	609.7	503.7
Indiana.....	FF	29.2	New England Division.....	BB	BB
Illinois.....	100.9	54.5	Massachusetts.....	AA	-
Michigan.....	EE	CC	Rhode Island.....	BB	BB
West North Central Division.....	33.1	29.1	Middle Atlantic Division.....	GG	GG
Minnesota.....	BB	CC	New York.....	FF	FF
Missouri.....	CC	CC	New Jersey.....	GG	252.5
North Dakota.....	CC	CC	Pennsylvania.....	284.3	GG
Kansas.....	EE	EE	North Central Region.....	1,048.1	734.3
South Region.....	665.0	562.0	East North Central Division.....	761.7	520.0
South Atlantic Division.....	CC	CC	Ohio.....	175.7	131.9
Delaware.....	BB	CC	Indiana.....	224.7	142.3
East South Central Division.....	GG	FF	Illinois.....	293.8	190.0
Kentucky.....	CC	CC	Michigan.....	GG	GG
Tennessee.....	CC	CC	Wisconsin.....	CC	BB
Alabama.....	EE	BB			
Mississippi.....	FF	FF			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
DISTILLATE FUEL OIL (29114)--Continued			RESIDUAL FUEL OIL (29115)--Continued		
North Central Region--Continued			West Region--Continued		
West North Central Division.....	286.4	214.3	Mountain Division--Continued		
Minnesota.....	GG	FF	New Mexico.....	AA	AA
Missouri.....	FF	FF	Utah.....	CC	CC
North Dakota.....	FF	EE	Pacific Division.....	434.8	201.7
Nebraska.....	AA	-	Washington.....	FF	CC
Kansas.....	148.4	135.1	Oregon.....	AA	AA
			California.....	364.7	187.3
South Region.....	2,177.0	1,650.7	Alaska.....	BB	-
South Atlantic Division.....	GG	GG	Hawaii.....	FF	CC
Delaware.....	FF	FF			
Maryland.....	BB	BB	LIQUIFIED REFINERY GASES (FEED STOCK AND OTHER USES) (29116)		
Virginia.....	FF	FF	United States.....	1,152.9	1,135.7
West Virginia.....	CC	BB	Northeast Region.....	51.3	57.8
Georgia.....	BB	BB	Middle Atlantic Division.....	51.3	57.8
East South Central Division.....	GG	GG	New York.....	AA	AA
Kentucky.....	GG	FF	New Jersey.....	FF	28.6
Tennessee.....	CC	EE	Pennsylvania.....	26.0	FF
Alabama.....	CC	BB			
Mississippi.....	GG	GG	North Central Region.....	109.8	79.5
West South Central Division.....	1,910.8	1,448.9	East North Central Division.....	93.8	69.0
Arkansas.....	18.6	25.4	Ohio.....	FF	29.3
Louisiana.....	539.8	321.4	Indiana.....	6.9	CC
Oklahoma.....	GG	122.1	Illinois.....	28.6	EE
Texas.....	1,214.5	980.1	Michigan.....	FF	EE
West Region.....	573.0	417.1	West North Central Division.....	16.1	10.4
Mountain Division.....	161.6	115.1	Minnesota.....	BB	BB
Montana.....	47.7	32.9	Missouri.....	AA	-
Wyoming.....	45.2	26.4	Kansas.....	9.7	CC
Colorado.....	CC	CC			
New Mexico.....	CC	CC	South Region.....	935.7	924.3
Utah.....	GG	38.5	South Atlantic Division.....	25.7	30.8
Pacific Division.....	411.3	302.0	Delaware.....	EE	EE
Washington.....	GG	62.1	Maryland.....	AA	-
Oregon.....	AA	AA	Virginia.....	BB	BB
California.....	299.1	224.3	West Virginia.....	BB	CC
Alaska.....	CC	CC	East South Central Division.....	12.9	9.8
Hawaii.....	CC	CC	Kentucky.....	CC	CC
			Mississippi.....	CC	BB
RESIDUAL FUEL OIL (29115)			West South Central Division.....	897.1	883.8
United States.....	1,107.2	566.1	Louisiana.....	210.7	181.1
Northeast Region.....	130.8	68.2	Oklahoma.....	CC	EE
Middle Atlantic Division.....	GG	68.2	Texas.....	679.4	684.1
New York.....	EE	CC			
New Jersey.....	FF	FF	West Region.....	56.0	74.2
Pennsylvania.....	63.8	34.8	Mountain Division.....	5.0	4.5
			Montana.....	1.6	-
North Central Region.....	170.1	105.6	Wyoming.....	AA	AA
East North Central Division.....	143.1	91.8	Utah.....	AA	AA
Ohio.....	FF	17.7	Pacific Division.....	51.0	69.7
Indiana.....	58.9	33.6	Washington.....	BB	BB
Illinois.....	32.2	27.7	California.....	46.9	65.6
Michigan.....	27.4	EE	Hawii.....	AA	-
Wisconsin.....	BB	AA			
West North Central Division.....	27.1	13.8	LUBRICATING OILS AND GREASES, MADE IN REFINERIES (29117)		
Minnesota.....	16.3	8.1	United States.....	894.8	883.7
North Dakota.....	AA	-	Northeast Region.....	234.0	203.7
Kansas.....	8.5	4.7	Middle Atlantic Division.....	234.0	GG
			New Jersey.....	GG	GG
South Region.....	338.6	164.2	Pennsylvania.....	GG	126.0
South Atlantic Division.....	16.8	5.5			
Delaware.....	BB	BB	North Central Region.....	182.5	150.0
Virginia.....	AA	-	East North Central Division.....	130.7	106.2
Georgia.....	EE	-	Ohio.....	EE	EE
East South Central Division.....	32.7	22.0	Indiana.....	GG	GG
Kentucky.....	EE	-	Illinois.....	36.6	FF
Tennessee.....	CC	CC	Michigan.....	EE	-
Alabama.....	CC	2.7	West North Central Division.....	51.8	43.8
Mississippi.....	CC	CC	Missouri.....	BB	-
West South Central Division.....	289.2	136.7	Kansas.....	FF	FF
Louisiana.....	67.4	26.0			
Oklahoma.....	EE	CC	South Region.....	367.9	422.4
Texas.....	209.4	102.7	South Atlantic Division.....	FF	EE
			West Virginia.....	FF	EE
West Region.....	467.6	228.0			
Mountain Division.....	32.8	26.3			
Montana.....	1.6	5.7			
Wyoming.....	17.0	10.2			
Colorado.....	CC	BB			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
LUBRICATING OILS AND GREASES, MADE IN REFINERIES (29117)--Continued			ASPHALT (29119)--Continued		
South Region--Continued			South Region--Continued		
West South Central Division.....	GG	GG	East South Central Division.....	83.1	42.7
Arkansas.....	BB	CC	Kentucky.....	FF	EE
Louisiana.....	FF	FF	Tennessee.....	BB	BB
Oklahoma.....	46.2	48.7	Alabama.....	FF	EE
Texas.....	247.0	320.4	Mississippi.....	FF	EE
West Region.....	110.5	107.6	West South Central Division.....	103.3	75.2
Mountain Division.....	CC	CC	Arkansas.....	BB	CC
Wyoming.....	CC	CC	Louisiana.....	EE	EE
Pacific Division.....	GG	GG	Oklahoma.....	21.6	14.4
California.....	GG	GG	Texas.....	50.4	37.0
UNFINISHED OILS AND LUBRICATING OIL BASE STOCK (29118)			West Region.....	140.0	81.5
United States.....	733.8	613.2	Mountain Division.....	39.1	23.5
Northeast Region.....	71.8	76.9	Montana.....	12.6	4.3
Middle Atlantic Division.....	71.8	76.7	Wyoming.....	13.0	10.2
New Jersey.....	26.4	GG	Colorado.....	BB	BB
Pennsylvania.....	45.5	FF	Utah.....	CC	BB
North Central Region.....	61.1	62.7	Pacific Division.....	100.8	58.0
East North Central Division.....	GG	59.6	Washington.....	CC	CC
Ohio.....	EE	CC	Oregon.....	EE	CC
Indiana.....	EE	EE	California.....	75.6	44.9
Illinois.....	23.7	33.1	ASPHALT, TAR SATURATED FELTS AND BOARDS FOR NONBUILDING USES (29521)		
West North Central Division.....	BB	3.1	United States.....	34.2	27.5
Kansas.....	BB	AA	Northeast Region.....	6.3	BB
South Region.....	469.6	375.1	New England Division.....	CC	(NA)
South Atlantic Division.....	CC	-	Massachusetts.....	BB	(NA)
West Virginia.....	BB	-	Rhode Island.....	AA	(NA)
North Carolina.....	AA	-	North Central Region.....	23.3	20.0
East South Central Division.....	AA	-	East North Central Division.....	23.3	20.0
Kentucky.....	AA	-	Ohio.....	2.8	AA
West South Central Division.....	462.6	GG	Illinois.....	EE	12.1
Louisiana.....	96.2	57.0	Michigan.....	BB	(NA)
Oklahoma.....	EE	20.3	South Region.....	BB	BB
Texas.....	352.1	296.8	West South Central Division.....	2.1	BB
West Region.....	131.2	98.5	Texas.....	1.6	(NA)
Mountain Division.....	AA	BB	ROOFING ASPHALTS, PITCHES, COATINGS, AND CEMENTS (29522)		
Wyoming.....	AA	BB	United States.....	155.3	101.4
Pacific Division.....	GG	GG	Northeast Region.....	26.1	22.1
Washington.....	BB	BB	New England Division.....	AA	2.5
California.....	GG	80.6	Massachusetts.....	AA	2.5
Alaska.....	CC	CC	Middle Atlantic Division.....	FF	19.6
ASPHALT (29119)			New York.....	AA	1.4
United States.....	671.5	424.2	New Jersey.....	15.4	13.1
Northeast Region.....	93.8	71.0	Pennsylvania.....	7.5	5.0
New England Division.....	CC	BB	North Central Region.....	65.2	39.5
Rhode Island.....	CC	BB	East North Central Division.....	52.6	33.2
Middle Atlantic Division.....	GG	GG	Ohio.....	27.0	15.7
New York.....	BB	CC	Indiana.....	BB	AA
New Jersey.....	FF	FF	Illinois.....	EE	15.9
Pennsylvania.....	35.6	22.1	Michigan.....	BB	(NA)
North Central Region.....	209.9	131.3	West North Central Division.....	12.6	6.4
East North Central Division.....	153.3	104.8	Minnesota.....	BB	AA
Ohio.....	49.6	36.0	Iowa.....	AA	(NA)
Indiana.....	42.3	21.3	Missouri.....	7.0	BB
Illinois.....	40.6	36.4	South Region.....	45.4	30.8
Michigan.....	EE	CC	South Atlantic Division.....	17.8	10.8
Wisconsin.....	CC	BB	Maryland.....	AA	BB
West North Central Division.....	56.7	26.5	North Carolina.....	BB	AA
Minnesota.....	FF	CC	South Carolina.....	AA	(NA)
Missouri.....	CC	BB	Georgia.....	3.7	BB
Kansas.....	26.7	EE	Florida.....	CC	BB
South Region.....	227.8	140.4	East South Central Division.....	4.5	5.5
South Atlantic Division.....	41.4	22.5	Tennessee.....	BB	1.4
Maryland.....	FF	EE	West South Central Division.....	23.1	14.6
Georgia.....	EE	CC	Louisiana.....	BB	2.3
Florida.....	CC	-	Oklahoma.....	AA	(NA)
			Texas.....	18.6	11.5

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ROOFING ASPHALTS, PITCHES, COATINGS, AND CEMENTS (29522)--Continued			ASPHALT AND TAR ROOFING AND SIDING PRODUCTS (29523)--Continued		
West Region.....	18.6	8.9	South Region.....	255.4	125.1
Mountain Division.....	3.4	AA	South Atlantic Division.....	99.1	47.2
Colorado.....	BB	(NA)	Delaware.....	BB	BB
Pacific Division.....	15.1	CC	Maryland.....	EE	CC
Oregon.....	BB	AA	West Virginia.....	BB	BB
California.....	12.2	6.3	North Carolina.....	BB	BB
			South Carolina.....	EE	CC
			Georgia.....	42.5	20.9
			Florida.....	EE	CC
ASPHALT AND TAR ROOFING AND SIDING PRODUCTS (29523)					
United States.....	690.6	375.2	East South Central Division.....	50.3	25.6
Northeast Region.....	129.9	75.6	Tennessee.....	CC	BB
New England Division.....	28.3	16.1	Alabama.....	FF	16.9
Massachusetts.....	FF	EE	Mississippi.....	EE	BB
Connecticut.....	BB	BB			
Middle Atlantic Division.....	101.6	59.6	West South Central Division.....	105.9	52.3
New Jersey.....	60.9	34.0	Arkansas.....	20.5	10.7
Pennsylvania.....	40.7	25.6	Louisiana.....	FF	EE
			Oklahoma.....	EE	CC
			Texas.....	50.7	22.1
North Central Region.....	211.7	129.3			
East North Central Division.....	161.6	98.8	West Region.....	93.6	45.2
Ohio.....	35.5	19.0	Mountain Division.....	CC	BB
Indiana.....	EE	CC	Colorado.....	CC	BB
Illinois.....	106.2	71.9	Utah.....	AA	(NA)
Michigan.....	BB	AA			
West North Central Division.....	50.2	30.5	Pacific Division.....	GG	FF
Minnesota.....	EE	13.3	Washington.....	CC	BB
Missouri.....	30.7	17.2	Oregon.....	15.4	8.0
Kansas.....	BB	(NA)	California.....	60.2	29.2

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9

BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9

EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9

GG.....\$50.0 and over

- Represents zero. (NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2911-	Petroleum refining.....	24,772.8	23,540.6	22,260.4	21,288.6	20,135.2	19,248.7	15,558.3	13,889.4
29111	Gasoline.....	13,029.6	12,307.5	11,704.4	11,129.1	10,331.2	9,844.2	7,978.1	7,518.7
29112	Jet fuel.....	1,371.6	1,301.5	1,221.2	1,361.1	1,240.6	1,100.4	632.5	(NA)
29113	Kerosene.....	372.4	401.3	389.7	423.4	432.3	430.5	374.7	411.7
29114	Distillate fuel oil.....	4,407.7	4,014.3	3,835.1	3,565.2	3,453.5	3,305.7	2,896.3	2,490.9
29115	Residual fuel oil.....	1,107.2	907.2	662.9	550.3	584.8	566.1	621.8	817.2
29116	Liquefied refinery gases (feed stock, other uses).....	1,152.9	1,251.6	1,299.6	1,207.5	1,154.8	1,135.7	702.9	495.3
29118	Unfinished oils and lubricating oil base stock.....	733.7	634.9	636.9	627.3	591.9	613.2	526.2	440.9
29119	Asphalt.....	671.5	650.5	540.7	468.8	456.8	424.2	360.5	284.6
29110	Other finished petroleum products including waxes and n.s.k.....	1,031.4	1,173.2	1,089.0	1,091.4	1,011.8	944.9	680.7	485.8
29117	Lubricating oils and greases, made in refineries.....	894.8	898.6	880.9	864.5	877.5	883.7	784.5	638.0
29920	Lubricating oils and greases, made from purchased materials..	642.0	481.2	482.9	477.0	461.0	443.4	425.6	244.5
29510	Paving mixtures and blocks.....	893.4	747.5	671.5	609.8	561.9	529.6	402.9	265.9
2952-	Asphalt felts and coatings.....	902.2	825.9	626.4	589.9	547.6	519.4	459.5	408.1
29521	Asphalt and tar saturated felts and boards, for nonbuilding use.....	34.2	(19.8)	(17.2)	39.1	34.2	27.5	21.1	21.5
29522	Roofing asphalts and pitches, coatings, and cements.....	155.3	153.7	133.0	142.4	124.5	101.4	94.4	67.9
29523	Asphalt and tar roofing and siding products.....	690.6	638.5	464.6	406.8	385.9	375.2	338.6	313.6
29520	Asphalt felts and coatings, n.s.k.....	22.1	13.9	(11.6)	1.6	(3.0)	15.3	5.4	5.1
29990	Petroleum and coal products, n.e.c.....	139.2	145.7	117.6	95.6	82.7	79.6	69.3	67.0

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2911.--PETROLEUM REFINING					
	Materials, containers, and supplies, total.....		(X)	19,610.8	(X)	14,535.3
	Crude petroleum, including field condensate.....	Million bbl...	4,269.6	15,557.8	3,621.2	11,246.8
131111	Domestic.....	do.....	3,419.9	12,445.9	3,202.9	9,981.8
131112	Foreign.....	do.....	849.7	3,111.9	418.3	1,265.0
291181	Foreign unfinished oils (received from foreign countries for further processing).....	do.....	52.8	209.8	30.8	100.4
132121	Plant condensate.....	do.....	45.7	151.2	30.1	94.2
132122	Natural gasoline, mixed and crude, including drip gasoline.....	do.....	99.2	337.4	88.2	281.6
132123	Liquefied petroleum gases, including feedstocks ¹	do.....	226.7	653.8	176.9	462.0
291107	Benzol (benzene) (100% C ₆ H ₆).....	do.....	4.4	29.9	1.6	14.3
	Additives, except animal and vegetable oil:					
280011	Antioxidants, antiknock compounds, and inhibitors.....	1,000 bbl.....	(S)	468.4	2,624	412.5
280012	Other additives, including soaps and detergents.....	do.....	3,095	134.9	2,132	102.5
207001	Animal and vegetable oils.....	do.....	114	5.6	121	5.4
281980	Chemical catalytic preparations.....	do.....	(X)	119.8	(X)	98.1
281238	Sodium hydroxide (100% NaOH) (caustic soda).....	1,000 s. tons..	330.4	22.1	277.8	14.3
281931	Sulfuric acid (100% H ₂ SO ₄) (except spent).....	do.....	1,967.2	44.1	1,952.2	40.0
	Containers:					
340001	Metal.....		(X)	72.8	(X)	62.1
260091	Paper and paperboard containers and shipping sacks, including corrugated boxes.....		(X)	14.4	(X)	13.1
265522	Cans, bodies with combinations of fiber and other materials (foil, plastic, etc.) with metal ends.....		(X)	50.0	(X)	37.4
970089	Cost of materials received from petroleum refineries and lube manufacturers (represents cost of materials for which quantities are shown in the "Receipts" column of table 3A).....		(X)	918.6	(X)	985.7
970099	All other materials, components, parts, containers, and supplies consumed.....		(X)	766.5	(X)	469.5
973000	Materials, containers, and supplies, n.s.k.....		(X)	53.7	(X)	95.4

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2951.--PAVING MIXTURES AND BLOCKS					
	Materials, containers, and supplies, total.....		(X)	458.3	(X)	301.9
	Asphalt:					
291191	Less than 200 penetration.....	1,000 s. tons..	5,410.3	157.9	4,761.4	104.5
291195	200 and over penetration.....	Million bbl....	(S)	23.0	(S)	11.0
144201	Sand and gravel.....	1,000 s. tons..	51,000.4	111.6	35,354.6	59.9
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	79.7	(X)	61.9
973000	Materials, containers, and supplies, n.s.k.....		(X)	86.1	(X)	64.6
	INDUSTRY 2952.--ASPHALT FELTS AND COATINGS					
	Materials, containers, and supplies, total.....		(X)	497.0	(X)	317.3
	Asphalt:					
291191	Less than 200 penetration.....	1,000 s. tons..	4,296.0	123.5	3,213.6	64.5
291195	200 and over penetration.....	Million bbl....	12.8	41.1	9.1	27.6
266101	Roofing felts (unsaturated), other construction paper and insulating board.....	1,000 s. tons..	1,524.3	124.6	1,535.3	81.9
32950	Roofing granules.....	..do.....	2,730.8	77.0	1,895.9	47.9
144201	Sand and gravel.....	..do.....	771.1	6.7	578.4	3.1
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	107.7	(X)	76.6
973000	Materials, containers, and supplies, n.s.k.....		(X)	16.3	(X)	15.7
	INDUSTRY 2992.--LUBRICATING OILS AND GREASES					
	Materials, containers, and supplies, total.....		(X)	362.2	(X)	257.0
	Additives, except animal and vegetable oil:					
280011	Antioxidants, antiknock compounds, and inhibitors.....	1,000 bbl.....	252	15.4	231	6.4
280012	Other additives, including soaps and detergents.....	..do.....	505	39.1	381	21.7
207001	Animal and vegetable oils.....	..do.....	206	10.0	496	11.2
281980	Chemical catalytic preparations.....		(X)	0.3	(NA)	(NA)
281238	Sodium hydroxide (100% NaOH) (caustic soda).....	1,000 s. tons..	(S)	.3	7.7	.6
281931	Sulfuric acid (100% H ₂ SO ₄) (except spent).....	..do.....	10.9	.3	(NA)	(NA)
	Containers:					
340001	Metal.....		(X)	32.8	(X)	22.3
260091	Paper and paperboard containers and shipping sacks, including corrugated boxes.....		(X)	4.8	(X)	2.6
265522	Cans, bodies with combinations of fiber and other materials (foil, plastic, etc.) with metal ends.....		(X)	18.3	(X)	13.6
970089	Cost of materials received from petroleum refineries and lube manufacturers (represents cost of materials for which quantities are shown in the "Receipts" column of table 3A).....		(X)	126.5	(X)	119.0
970099	All other materials, components, parts, containers, and supplies consumed.....		(X)	53.6	(X)	35.0
973000	Materials, containers, and supplies, n.s.k.....		(X)	60.8	(X)	24.6

(X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.

¹Represents liquified petroleum gases from natural gasoline plants only.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 2911.--PETROLEUM REFINING					
	Purchased fuels and electric energy.....		(X)	585.7	(X)	416.9
	Purchased fuels, total.....		(X)	412.4	(X)	294.1
121005	Coal.....	1,000 s. tons.....	344.6	3.2	776.9	4.3
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	11,415.9	37.9	7,263.1	14.8
291141	Distillate.....	..do.....	1,574.2	4.7	354.5	.8
291151	Residual.....	..do.....	9,841.7	33.1	6,908.6	14.0
131300	Natural gas.....	Billion ft³.....	1,291.1	340.3	1,119.9	254.4
960011	Other fuels.....		(X)	29.0	(X)	8.5
975000	Fuels, n.s.k.....		(X)	2.1	(X)	12.1
960012	Purchased electric energy.....	Million kWh.....	22,524.1	173.3	17,474.0	122.8
	Quantity of electric energy generated less quantity sold....	...do.....	5,565.1	-	4,088.0	-
	Total energy used for heat and power.....	Bil. kWh equiv....	444.8	-	394.5	-
	INDUSTRY 2951.--PAVING MIXTURES AND BLOCKS					
	Purchased fuels and electric energy.....		(X)	29.4	(X)	23.3
	Purchased fuels, total.....		(X)	20.1	(X)	16.5
121005	Coal.....	1,000 s. tons.....	-	-	-	-
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,587.5	7.6	2,384.2	6.8
291141	Distillate.....	..do.....	1,301.2	6.4	1,869.2	5.0
291151	Residual.....	..do.....	286.3	1.2	515.0	1.8
131300	Natural gas.....	Billion ft³.....	10.3	5.5	8.3	3.8
960011	Other fuels.....		(X)	3.1	(X)	1.1
975000	Fuels, n.s.k.....		(X)	3.9	(X)	4.8
960012	Purchased electric energy.....	Million kWh.....	558.2	9.3	352.2	6.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	11.3	(NA)	12.9	(NA)
	INDUSTRY 2952.--ASPHALT FELTS AND COATINGS					
	Purchased fuels and electric energy.....		(X)	14.6	(X)	11.8
	Purchased fuels, total.....		(X)	10.1	(X)	8.4
121005	Coal.....	1,000 s. tons.....	6.6	.1	88.7	.7
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	716.4	3.1	795.1	2.0
291141	Distillate.....	..do.....	229.4	1.1	167.1	.5
291151	Residual.....	..do.....	487.0	2.0	628.0	1.5
131300	Natural gas.....	Billion ft³.....	12.1	5.1	8.6	2.9
960011	Other fuels.....		(X)	.5	(X)	.6
975000	Fuels, n.s.k.....		(X)	1.4	(X)	2.0
960012	Purchased electric energy.....	Million kWh.....	331.2	4.5	(NA)	3.4
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.6	-
	Total energy used for heat and power.....	Bil. kWh equiv....	6.9	-	7.5	-
	INDUSTRY 2999.--PETROLEUM AND COAL PRODUCTS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	3.6	(X)	(NA)
	Purchased fuels, total.....		(X)	2.8	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	4.4	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	54.0	.3	(NA)	(NA)
291141	Distillate.....	..do.....	48.0	.2	(NA)	(NA)
291151	Residual.....	..do.....	6.0	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	6.3	2.4	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	72.2	.8	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.2	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

MAJOR GROUP 30

Rubber and Miscellaneous Plastics Products

30A Rubber and miscellaneous plastics products

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments primarily manufacturing tires, but establishments primarily recapping and retreading automobile tires are classified in industry 7534, Tires Retreading and Repair Shops. This group also includes establishments engaged in molding primary plastics for the trade, and manufacturing miscellaneous finished plastics products. The manufacture of elastic webbing is classified in Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in Major Group 23; and synthetic rubber in industry 2822.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees ¹		Production workers			Value added by manufacture ²	Cost of materials ³	Value of industry shipments ³	Capital expenditures, new ⁴
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
All manufacturing establishments, total: ⁵											
1972.....	9,386	4,269	635.1	5,381.9	486.8	968.3	3,605.0	11,653.3	9,466.1	20,923.7	1,059.6
1967 ⁶	6,535	2,533	531.0	3,421.8	410.1	815.5	2,312.5	6,799.5	5,974.4	12,758.6	677.2
1963.....	5,800	2,588	426.7	2,470.8	328.8	658.5	1,672.5	4,654.0	4,480.1	9,116.2	343.5
1958 ⁷	4,502	1,846	356.1	1,785.5	270.5	531.0	1,211.4	3,276.6	(NA)	6,599.6	197.1
1954.....	(NA)	(NA)	252.5	1,103.0	196.2	377.4	775.5	1,954.4	(NA)	(NA)	128.4
Administrative and auxiliary units:											
1972 ⁶	149	81	17.4	216.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 ⁶	79	45	14.3	135.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 ⁶	72	39	11.8	106.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 ⁶	40	19	8.3	62.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 ⁶	(NA)	(NA)	5.9	43.6	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	9,237	4,188	617.7	5,165.2	486.8	968.3	3,605.0	11,653.3	9,466.1	20,923.7	1,059.6
1967.....	6,456	3,122	516.7	3,286.5	410.1	815.5	2,312.5	6,799.5	5,974.4	12,758.6	677.2
1963.....	5,728	2,449	415.0	2,364.0	328.8	658.5	1,672.4	4,654.0	4,480.1	9,116.2	343.5
1958.....	4,562	1,827	347.8	1,723.3	270.5	531.0	1,211.4	3,276.6	(NA)	6,599.6	197.1
1954.....	1,406	753	246.5	1,059.3	196.2	377.4	775.5	1,954.4	(NA)	(NA)	128.4
Operating manufacturing establishments:											
1971 ⁸	(NA)	(NA)	543.5	4,285.7	422.2	844.4	2,968.4	9,521.2	7,541.6	17,043.7	723.8
1970 ⁸	(NA)	(NA)	545.8	3,998.6	426.9	849.2	2,759.1	8,502.7	7,038.3	15,471.4	828.4
1969 ⁸	(NA)	(NA)	567.4	4,026.0	450.8	915.5	2,846.4	8,431.1	7,324.6	15,637.4	856.6
1968 ⁸	(NA)	(NA)	541.9	3,705.4	430.1	875.4	2,624.1	7,730.4	6,799.1	14,377.4	760.0
1966 ⁸	(NA)	(NA)	491.8	3,072.0	390.6	799.9	2,174.3	6,277.1	5,825.5	11,976.0	599.9
1965 ⁸	(NA)	(NA)	465.2	2,813.9	368.8	747.1	1,985.3	5,681.4	5,276.5	10,863.2	516.0
1964 ⁸	(NA)	(NA)	430.1	2,546.9	340.7	695.9	1,798.5	4,990.9	4,789.3	9,723.2	399.4
1962 ⁸	(NA)	(NA)	398.1	2,249.5	313.8	636.7	1,584.5	4,316.1	4,255.8	8,519.4	354.0
1961 ⁸	(NA)	(NA)	370.6	2,018.9	288.0	577.0	1,401.6	3,915.6	3,827.7	7,742.4	282.7
1960 ⁸	(NA)	(NA)	378.1	1,998.1	295.9	589.7	1,399.9	3,772.6	(NA)	(NA)	298.7
1959 ⁸	(NA)	(NA)	379.3	1,968.3	300.1	600.1	1,406.1	3,792.9	(NA)	(NA)	214.4
1957 ⁸	(NA)	(NA)	259.9	1,309.9	205.3	402.8	953.7	2,462.1	(NA)	(NA)	148.7
1956 ⁸	(NA)	(NA)	265.0	1,260.3	211.3	414.7	931.1	2,417.7	(NA)	(NA)	152.3
1955 ⁸	(NA)	(NA)	264.9	1,257.3	213.4	437.3	946.6	2,377.1	(NA)	(NA)	126.7
1953 ⁸	(NA)	(NA)	269.8	1,140.0	218.9	432.4	866.2	2,021.4	(NA)	(NA)	127.1
1952 ⁸	730	(NA)	255.1	1,042.2	205.9	408.5	785.5	1,744.1	(NA)	(NA)	126.9
1951 ⁸	743	(NA)	252.8	962.6	206.6	414.7	734.9	1,729.3	(NA)	(NA)	113.7
1950 ⁸	838	(NA)	238.7	837.0	196.3	392.4	644.4	1,619.9	(NA)	(NA)	80.0
1949 ⁸	(NA)	(NA)	222.4	713.4	180.3	342.3	532.5	1,194.7	(NA)	(NA)	63.3
1947.....	872	(NA)	258.2	781.4	213.8	423.7	613.2	1,299.5	(NA)	(NA)	109.8
1939.....	695	(NA)	149.7	226.9	120.7	(NA)	161.4	406.2	(NA)	(NA)	(NA)
1937.....	578	(NA)	150.0	216.3	129.8	(NA)	171.3	368.8	(NA)	(NA)	(NA)
1935.....	566	(NA)	131.5	169.4	114.7	(NA)	133.7	308.8	(NA)	(NA)	(NA)
1933.....	408	(NA)	121.2	125.4	106.3	(NA)	99.1	261.3	(NA)	(NA)	(NA)
1931.....	553	(NA)	(NA)	(NA)	99.3	(NA)	112.6	361.4	(NA)	(NA)	(NA)
1929.....	525	(NA)	172.0	262.7	149.1	(NA)	207.3	538.8	(NA)	(NA)	(NA)
1927.....	516	(NA)	168.6	258.7	142.0	(NA)	198.1	564.7	(NA)	(NA)	(NA)
1925 ⁹	530	(NA)	(NA)	(NA)	141.9	(NA)	191.3	539.1	(NA)	(NA)	(NA)
1923.....	529	(NA)	160.1	231.0	137.9	(NA)	182.1	457.4	(NA)	(NA)	(NA)
1921.....	596	(NA)	124.6	170.9	103.3	(NA)	123.6	327.0	(NA)	(NA)	(NA)
1919.....	577	(NA)	206.1	279.0	158.5	(NA)	193.8	543.9	(NA)	(NA)	(NA)
1914.....	342	(NA)	88.7	60.4	74.0	(NA)	44.2	138.0	(NA)	(NA)	(NA)
1909.....	367	(NA)	56.0	33.0	49.3	(NA)	25.1	74.7	(NA)	(NA)	(NA)
1904.....	365	(NA)	47.6	24.6	43.9	(NA)	20.1	68.0	(NA)	(NA)	(NA)
1899.....	301	(NA)	39.1	18.6	36.6	(NA)	15.4	39.6	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

²For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

³The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

⁴The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

⁵Data for 1972 are not directly comparable to 1971 and earlier years. See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

⁶In addition to data for operating establishments, 1954, 1958, 1963, 1967, and 1972 figures are shown for manufacturer's central administrative offices and auxiliary units. Similar data are shown for the years 1949 to 1953, 1955 to 1957, 1959 to 1962, 1964 to 1966, and 1968 to 1971 in annual survey of manufactures volumes. Data for these units are not available for the years prior to 1949.

⁷Based upon the 1957 revisions of the Standard Industrial Classification Manual, establishments engaged in molding plastics products for the trade and fabricating miscellaneous finished plastics products were reclassified from Major Group 39, Miscellaneous Manufacturing Industries, to Major Group 30. Data for years prior to 1958 exclude data for plastics products.

⁸These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

⁹The figures for 1925 to 1972, but not for earlier years, include data for establishments primarily engaged in manufacture of rubber cement and rubber toy balloons. Value added by manufacture for 1925, excluding data for these establishments and on a basis comparable with earlier years, was \$536.6 million.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
30	RUBBER, MISC. PLASTICS PROD. . .	9 237	4 188	617.7	5 165.2	486.8	968.3	3 605.0	11 653.3	9 466.1	20 923.7	1 059.6	(NA)	(NA)
	NORTHEAST REGION	2 843	1 338	173.3	1 357.9	135.8	270.2	927.7	2 904.1	2 334.3	5 177.5	235.9	(NA)	(NA)
	NEW ENGLAND DIVISION	853	421	64.5	485.5	50.8	100.1	331.8	1 064.4	805.4	1 846.5	71.8	(NA)	(NA)
	MAINE	30	13	3.5	20.2	3.0	5.8	15.2	47.0	34.3	81.2	2.1	(NA)	(NA)
	NEW HAMPSHIRE	51	28	6.5	30.9	5.8	11.2	31.1	79.3	68.8	143.7	10.0	(NA)	(NA)
	VERMONT	17	9	1.7	11.7	1.4	2.9	9.0	21.9	15.8	37.5	1.4	(NA)	(NA)
	MASSACHUSETTS	462	240	31.6	250.0	24.6	48.6	167.8	560.3	433.5	978.4	37.4	(NA)	(NA)
	RHODE ISLAND	90	39	6.1	42.1	4.8	9.3	28.3	122.3	70.7	191.4	8.5	(NA)	(NA)
	CONNECTICUT	203	92	15.2	121.7	11.2	22.3	80.6	233.7	182.4	414.2	12.4	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	1 990	917	108.9	872.4	85.0	170.0	595.8	1 839.7	1 529.0	3 331.0	164.1	(NA)	(NA)
	NEW YORK	873	362	37.1	284.6	29.3	58.2	191.1	572.0	481.6	1 042.0	45.3	(NA)	(NA)
	NEW JERSEY	656	338	36.6	300.6	28.5	57.3	202.5	616.2	496.1	1 101.8	73.9	(NA)	(NA)
	PENNSYLVANIA	461	217	35.2	287.2	27.3	54.5	202.2	651.5	551.3	1 187.2	44.9	(NA)	(NA)
	NORTH CENTRAL REGION	2 971	1 498	243.7	2 191.0	190.6	379.1	1 527.0	4 671.1	3 772.9	8 372.0	405.3	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	2 392	1 229	206.3	1 872.0	160.1	319.3	1 289.3	3 895.6	3 195.2	7 032.6	334.0	(NA)	(NA)
	OHIO	769	410	95.8	941.8	71.7	142.8	633.0	1 995.8	1 612.0	3 585.0	159.2	(NA)	(NA)
	INDIANA	277	154	31.0	256.2	24.9	50.0	187.4	497.5	430.1	918.4	36.8	(NA)	(NA)
	ILLINOIS	660	329	38.0	313.9	30.2	60.2	216.4	677.1	531.0	1 202.9	78.4	(NA)	(NA)
	MICHIGAN	483	230	28.9	252.3	22.9	45.5	173.6	498.9	443.9	930.1	43.7	(NA)	(NA)
	WISCONSIN	203	106	12.7	107.7	10.4	20.7	78.9	226.2	178.2	396.2	15.9	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	579	269	37.5	319.0	30.5	59.9	237.7	775.5	577.7	1 339.4	71.2	(NA)	(NA)
	MINNESOTA	198	84	7.7	60.8	6.0	11.6	40.2	128.2	88.4	216.5	14.4	(NA)	(NA)
	IOWA	67	40	10.0	99.9	8.0	15.8	76.5	251.4	188.6	434.8	18.9	(NA)	(NA)
	MISSOURI	182	89	9.4	66.9	7.9	15.5	50.0	153.2	120.1	270.4	13.0	(NA)	(NA)
	SOUTH DAKOTA	12	3	.4	2.0	.3	.6	1.7	5.7	2.1	7.7	.5	(NA)	(NA)
	NEBRASKA	31	20	3.7	29.8	3.1	5.8	22.3	66.1	37.9	100.4	3.8	(NA)	(NA)
	KANSAS	83	33	6.2	59.3	5.2	10.5	46.7	170.4	140.2	308.7	20.5	(NA)	(NA)
	SOUTH REGION	1 757	759	137.4	1 087.1	111.3	222.1	792.0	2 883.6	2 450.4	5 292.2	318.0	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	906	398	68.3	504.4	55.2	109.6	357.8	1 242.1	1 059.4	2 283.5	158.8	(NA)	(NA)
	DELAWARE	31	20	5.1	42.4	3.8	7.2	28.9	118.4	94.3	207.6	7.0	(NA)	(NA)
	MARYLAND	80	40	9.9	77.9	8.0	15.0	57.9	140.0	139.2	280.7	17.1	(NA)	(NA)
	VIRGINIA	73	40	11.2	95.5	8.8	18.3	66.5	255.6	195.8	450.3	38.6	(NA)	(NA)
	WEST VIRGINIA	26	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	156	82	16.0	112.3	12.9	25.6	78.0	280.2	251.6	527.2	30.2	(NA)	(NA)
	SOUTH CAROLINA	65	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	153	76	10.2	67.3	8.5	16.9	48.7	206.7	189.7	394.0	17.1	(NA)	(NA)
	FLORIDA	319	96	8.9	56.8	7.6	15.0	42.1	122.7	83.7	202.1	15.7	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	309	160	39.3	346.6	32.2	65.3	264.2	1 019.8	854.2	1 856.1	86.1	(NA)	(NA)
	KENTUCKY	58	26	5.1	42.4	4.0	8.0	30.0	138.9	110.8	247.3	15.6	(NA)	(NA)
	TENNESSEE	136	73	16.1	136.2	13.4	27.4	104.7	414.2	326.9	734.4	38.2	(NA)	(NA)
	ALABAMA	69	31	12.1	121.5	10.1	20.6	95.4	371.4	296.6	661.3	19.6	(NA)	(NA)
	MISSISSIPPI	46	30	5.9	46.5	4.7	9.4	34.1	95.3	119.9	213.1	12.8	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	542	201	29.8	236.1	24.0	47.2	169.9	621.7	536.8	1 152.6	73.1	(NA)	(NA)
	ARKANSAS	54	30	6.4	46.6	5.1	10.0	34.5	124.4	100.7	223.3	7.3	(NA)	(NA)
	LOUISIANA	37	8	.7	4.3	.6	1.3	3.2	11.3	9.0	20.2	1.0	(NA)	(NA)
	OKLAHOMA	75	24	6.7	58.3	5.4	10.3	43.5	139.0	132.0	270.9	26.0	(NA)	(NA)
	TEXAS	376	139	16.0	126.9	12.9	25.6	88.8	347.1	295.1	638.3	38.8	(NA)	(NA)
	WEST REGION	1 666	593	63.3	529.2	49.0	96.9	358.4	1 194.5	908.5	2 082.1	100.4	(NA)	(NA)
	MOUNTAIN DIVISION	211	60	9.1	77.9	7.2	14.0	56.6	197.9	106.5	306.0	19.8	(NA)	(NA)
	IDAHO	13	5	.3	1.6	.2	.4	1.1	10.7	3.2	12.4	(D)	(NA)	(NA)
	COLORADO	71	18	5.7	57.0	4.4	8.6	42.1	146.2	74.7	224.3	7.1	(NA)	(NA)
	NEW MEXICO	18	3	.3	1.7	.3	.5	1.3	3.2	2.4	5.6	(D)	(NA)	(NA)
	ARIZONA	56	21	1.7	10.9	1.4	2.8	7.4	23.7	16.6	40.0	3.1	(NA)	(NA)
	UTAH	38	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	1 455	533	54.2	451.2	41.8	83.0	301.8	996.6	802.0	1 776.1	80.7	(NA)	(NA)
	WASHINGTON	108	34	1.9	15.0	1.6	2.8	10.6	30.5	29.4	58.7	2.8	(NA)	(NA)
	OREGON	70	22	1.3	9.9	1.0	1.9	6.5	19.7	18.2	37.6	2.2	(NA)	(NA)
	CALIFORNIA	1 263	472	50.8	425.0	39.1	77.9	283.7	943.7	752.3	1 674.9	75.6	(NA)	(NA)
	HAWAII	11	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
301	TIRES AND INNER TUBES	206	126	107.5	1 214.1	83.1	168.9	908.1	3 070.8	2 745.1	5 747.1	267.1	(NA)	(NA)
	NORTHEAST REGION	32	17	13.1	140.1	10.6	21.8	109.6	351.5	362.1	693.1	15.1	11.6	229.0
	NEW ENGLAND DIVISION	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	6	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	21	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA	14	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION	62	39	50.0	599.4	36.8	74.6	430.1	1 424.8	1 223.5	2 617.6	130.8	50.2	986.1
	EAST NORTH CENTRAL DIVISION	50	32	41.9	503.7	30.1	60.7	350.7	1 155.5	1 019.0	2 147.6	110.8	(NA)	(NA)
	OHIO	27	19	26.9	328.0	18.6	37.3	218.2	758.3	671.6	1 416.2	71.6	(NA)	(NA)
	INDIANA	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MICHIGAN	6	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	12	7	8.1	95.7	6.8	13.9	79.4	269.3	204.5	470.0	20.1	(NA)	(NA)
	IOWA	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	80	51	35.9	374.4	29.2	59.3	293.8	1 052.4	957.8	1 997.1	111.9	21.9	452.7
	SOUTH ATLANTIC DIVISION	28	17	9.4	94.9	7.4	15.0	70.9	283.2	263.1	543.6	37.8	(NA)	(NA)
	MARYLAND	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	5	3	EE	(D)	(D)	(D)	(D						

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
301	TIRES AND INNER TUBES--CONTINUED													
	SOUTH REGION--CONTINUED													
	EAST SOUTH CENTRAL DIVISION. . . .	28	19	17.1	186.5	14.2	29.6	150.6	518.6	458.1	965.7	42.1	(NA)	(NA)
	KENTUCKY	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	12	9	5.5	60.4	4.5	9.5	47.4	179.6	131.3	306.1	18.9	(NA)	(NA)
	ALABAMA	10	6	8.0	90.2	6.8	14.5	75.0	251.8	218.7	465.6	12.5	(NA)	(NA)
	MISSISSIPPI.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	24	15	9.4	93.0	7.6	14.7	72.3	250.6	236.6	487.7	32.1	(NA)	(NA)
	ARKANSAS	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA	7	5	4.3	41.6	3.5	6.6	32.4	102.3	99.9	202.4	21.4	(NA)	(NA)
	TEXAS.	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION.	32	19	8.5	100.2	6.5	13.2	74.6	242.1	201.8	439.2	9.2	9.0	155.1
	MOUNTAIN DIVISION.	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	27	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	22	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
302	RUBBER AND PLASTICS FOOTWEAR . . .	107	74	31.6	182.6	26.5	49.9	137.5	370.3	243.3	600.0	17.7	(NA)	(NA)
	NORTHEAST REGION	53	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW ENGLAND DIVISION	29	25	12.0	76.8	9.5	17.9	54.2	178.2	118.0	284.0	9.6	(NA)	(NA)
	MAINE	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS.	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	RHODE ISLAND	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT.	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	24	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA	9	7	2.2	10.5	2.0	3.6	8.9	16.8	13.9	31.2	2.4	(NA)	(NA)
	NORTH CENTRAL REGION	18	5	2.9	18.1	2.5	4.6	13.7	32.3	16.4	47.5	1.0	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . .	14	5	2.6	16.0	2.2	4.2	12.2	29.4	14.1	42.5	.8	(NA)	(NA)
	OHIO	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	INDIANA	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	4	3	.3	2.1	.3	.5	1.5	2.8	2.3	5.0	.1	(NA)	(NA)
	MISSOURI	4	3	.3	2.1	.3	.5	1.5	2.8	2.3	5.0	.1	(NA)	(NA)
	SOUTH REGION	27	20	11.7	60.8	10.3	19.7	49.7	109.7	74.5	184.1	3.6	(NA)	(NA)
	SOUTH ATLANTIC DIVISION.	18	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH CAROLINA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA.	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE.	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARKANSAS	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION.	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MOUNTAIN DIVISION.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
303	RECLAIMED RUBBER	20	9	.9	9.1	.8	1.5	6.9	15.6	13.1	29.7	.7	(NA)	(NA)
	NORTH CENTRAL REGION	10	6	.6	5.8	.5	.9	4.4	8.7	9.0	18.8	.5	1.2	16.1
	EAST NORTH CENTRAL DIVISION. . . .	10	6	.6	5.8	.5	.9	4.4	8.7	9.0	18.8	.5	(NA)	(NA)
	OHIO	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	5	2	.3	2.8	.2	.5	2.2	5.7	3.6	9.2	.1	BB	(D)
	EAST SOUTH CENTRAL DIVISION. . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
304	RUBBER, PLASTICS HOSE, BELTING . .	90	73	31.9	309.0	22.6	45.4	200.1	618.7	405.5	1 020.1	31.6	(NA)	(NA)
	NORTHEAST REGION	33	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW ENGLAND DIVISION	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS.	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	27	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY	18	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ³	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
304	RUBBER, PLASTICS HOSE, BELTING-- CONTINUED													
	NORTH CENTRAL REGION	33	28	14.5	146.3	9.7	19.2	87.5	257.4	183.2	438.6	11.5	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . .	25	21	10.6	112.3	6.5	12.7	60.3	177.9	142.8	321.9	8.5	(NA)	(NA)
	OHIO	15	12	8.6	93.0	4.9	9.3	45.6	134.4	117.2	252.0	7.6	(NA)	(NA)
	INDIANA	3	3	.3	2.4	.3	.6	1.8	3.5	3.3	6.7	.2	(NA)	(NA)
	ILLINOIS	4	3	1.5	15.3	1.2	2.5	11.7	35.6	19.6	56.2	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	8	7	3.9	34.0	3.3	6.5	27.2	79.5	40.4	116.7	3.0	(NA)	(NA)
	MINNESOTA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	11	9	5.2	42.4	4.2	8.7	32.4	106.1	56.5	162.4	4.1	(NA)	(NA)
	SOUTH ATLANTIC DIVISION.	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	DELAWARE	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH CAROLINA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KENTUCKY	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	2	2	.8	4.7	.7	1.4	3.9	11.2	7.4	16.1	.5	(NA)	(NA)
	ARKANSAS	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION.	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MOUNTAIN DIVISION.	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	6	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
305	FABRICATED RUBBER PRODUCTS, NEC. .	1 116	606	99.0	808.8	77.4	153.7	559.7	1 573.1	1 273.0	2 830.9	86.5	(NA)	(NA)
	NORTHEAST REGION	319	167	26.0	217.7	19.5	39.6	143.5	401.2	275.4	673.7	(D)	(NA)	(NA)
	NEW ENGLAND DIVISION	132	81	14.3	122.1	10.7	22.0	82.4	236.6	169.5	401.9	12.7	(NA)	(NA)
	NEW HAMPSHIRE	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VERMONT.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS.	61	41	7.7	66.9	5.7	11.8	44.3	128.5	86.5	215.2	6.7	(NA)	(NA)
	RHODE ISLAND	16	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT.	43	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	187	86	11.7	95.6	8.8	17.7	61.1	170.7	105.8	271.9	10.2	(NA)	(NA)
	NEW YORK	68	21	3.6	28.9	2.9	5.7	19.9	56.0	39.1	93.2	(D)	(NA)	(NA)
	NEW JERSEY	70	40	4.5	34.1	3.4	6.9	22.7	62.2	41.4	101.3	4.1	(NA)	(NA)
	PENNSYLVANIA	49	25	3.7	32.7	2.5	5.1	16.5	52.5	25.3	77.3	3.4	(NA)	(NA)
	NORTH CENTRAL REGION	417	248	45.3	401.0	36.0	71.4	286.3	748.5	583.1	1 329.1	41.5	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . .	368	223	42.1	377.1	33.4	66.6	269.1	701.2	541.9	1 240.6	38.5	(NA)	(NA)
	OHIO	171	101	22.6	209.5	17.8	35.2	148.6	387.0	289.5	676.4	22.9	(NA)	(NA)
	INDIANA	56	39	11.0	98.6	8.6	17.2	71.4	172.5	158.7	329.7	8.3	(NA)	(NA)
	ILLINOIS	61	37	3.2	25.6	2.5	4.9	18.1	55.9	34.7	90.5	3.0	(NA)	(NA)
	MICHIGAN	57	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN	23	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	49	25	3.2	23.9	2.6	4.7	17.3	47.3	41.2	88.5	3.1	(NA)	(NA)
	MINNESOTA	22	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	IOWA	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	13	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH DAKOTA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	205	116	20.1	131.5	16.1	31.3	92.5	310.6	318.7	622.2	18.7	(NA)	(NA)
	SOUTH ATLANTIC DIVISION.	111	63	10.7	69.6	8.6	16.8	48.2	182.2	185.4	362.1	12.2	(NA)	(NA)
	DELAWARE	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	13	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA.	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	18	9	1.0	5.6	.9	1.7	4.0	17.3	17.2	34.5	.4	(NA)	(NA)
	SOUTH CAROLINA	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA.	31	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA.	22	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	39	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KENTUCKY	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	13	11	2.1	16.4	1.7	3.7	11.9	32.1	58.9	90.2	2.1	(NA)	(NA)
	ALABAMA	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSISSIPPI.	11	7	1.3	8.2	1.0	2.0	5.7	16.3	15.3	31.7	.9	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	55	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARKANSAS	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS.	39	18	2.3	16.4	1.8	3.5	11.3	33.2	29.3	62.5	(D)	(NA)	(NA)
	WEST REGION.	175	75	7.6	58.7	5.7	11.4	37.4	112.8	95.8	205.8	(D)	(NA)	(NA)
	MOUNTAIN DIVISION.	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	162	69	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WASHINGTON	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON	12	6	.3	2.8	.2	.5	1.7	4.8	3.3	8.1	.4	(NA)	(NA)
	CALIFORNIA	145	59	6.6	51.1	4.8	9.8	32.4	101.8	86.3	165.4	4.7	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials ²	Value of shipments ²	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
307	MISCELLANEOUS PLASTICS PRODUCTS, . .	7 698	3 300	346.9	2 641.6	276.4	548.8	1 792.6	6 004.7	4 786.0	10 695.9	654.0	(NA)	(NA)
	NORTHEAST REGION	2 403	1 086	109.9	823.0	86.9	172.7	553.8	1 787.7	1 431.7	3 199.5	173.5	(NA)	(NA)
	NEW ENGLAND DIVISION	674	305	32.4	229.3	26.2	51.5	152.8	542.9	404.2	941.0	45.1	(NA)	(NA)
	MAINE	16	7	1.6	10.3	1.3	2.5	6.8	32.1	24.7	56.9	1.1	(NA)	(NA)
	NEW HAMPSHIRE	38	16	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VERMONT	16	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	378	183	16.8	120.9	13.5	26.5	79.8	266.6	218.5	483.3	24.9	(NA)	(NA)
	RHODE ISLAND	72	30	3.9	28.1	2.9	5.7	17.1	99.0	53.8	151.7	7.8	(NA)	(NA)
	CONNECTICUT	154	61	5.7	41.5	4.5	8.7	27.5	82.1	61.4	143.1	5.3	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	1 729	781	77.4	593.7	60.8	121.2	401.0	1 244.8	1 027.5	2 258.6	128.2	(NA)	(NA)
	NEW YORK	786	330	29.5	221.5	23.3	46.1	146.8	454.6	357.4	804.9	40.3	(NA)	(NA)
	NEW JERSEY	558	279	26.8	215.4	21.1	42.7	146.0	459.2	382.1	836.6	60.8	(NA)	(NA)
	PENNSYLVANIA	385	172	21.2	156.7	16.3	32.4	108.2	331.0	288.0	617.0	27.1	(NA)	(NA)
	NORTH CENTRAL REGION	2 431	1 169	130.5	1 020.5	105.0	208.3	704.8	2 199.4	1 757.8	3 920.3	219.9	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	1 925	942	108.6	857.1	87.4	174.1	592.5	1 822.8	1 468.5	3 261.2	175.0	(NA)	(NA)
	OHIO	544	272	37.2	306.4	30.0	60.2	217.4	706.2	525.3	1 222.0	56.6	(NA)	(NA)
	INDIANA	208	106	16.4	124.3	13.2	26.7	88.9	244.4	205.7	443.9	26.3	(NA)	(NA)
	ILLINOIS	581	281	28.5	223.0	22.9	45.4	149.3	450.8	361.1	805.6	49.3	(NA)	(NA)
	MICHIGAN	416	194	18.3	140.0	14.7	28.6	93.6	284.6	264.2	543.8	29.7	(NA)	(NA)
	WISCONSIN	176	89	8.2	63.4	6.6	13.2	43.3	136.8	112.2	245.8	13.1	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	506	227	21.9	163.4	17.6	34.2	112.3	376.6	289.4	659.2	44.9	(NA)	(NA)
	MINNESOTA	174	71	6.5	50.5	5.0	9.8	33.2	106.5	76.6	182.9	13.6	(NA)	(NA)
	IOWA	57	32	4.5	37.2	3.5	6.9	25.8	84.8	63.3	146.8	9.1	(NA)	(NA)
	MISSOURI	159	77	6.8	46.1	5.7	11.2	33.8	108.9	82.0	188.8	11.9	(NA)	(NA)
	NEBRASKA	23	14	1.3	8.6	1.0	1.9	5.4	18.5	14.5	31.8	1.0	(NA)	(NA)
	KANSAS	77	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	1 429	561	64.3	475.2	51.3	102.7	321.4	1 299.2	1 039.3	2 317.2	179.5	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	743	299	34.5	256.1	27.4	55.0	172.2	625.2	509.4	1 124.1	102.4	(NA)	(NA)
	DELAWARE	27	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND	65	29	3.4	24.2	2.6	5.2	15.9	53.5	41.4	93.9	7.3	(NA)	(NA)
	VIRGINIA	53	27	6.6	56.9	5.2	10.5	39.5	150.3	114.4	263.6	17.2	(NA)	(NA)
	WEST VIRGINIA	17	6	.4	2.4	.4	.7	2.0	5.5	3.8	9.0	(D)	(NA)	(NA)
	NORTH CAROLINA	125	65	7.9	53.4	6.3	12.5	34.5	132.4	125.6	255.3	17.4	(NA)	(NA)
	SOUTH CAROLINA	52	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	110	47	3.6	23.7	3.0	6.0	16.2	60.0	53.7	112.2	12.6	(NA)	(NA)
	FLORIDA	291	87	6.3	41.8	5.2	10.3	29.8	99.2	66.9	163.9	13.3	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	230	106	14.9	110.5	11.9	23.7	76.9	376.9	286.7	658.6	39.3	(NA)	(NA)
	KENTUCKY	50	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	104	46	6.9	49.0	5.9	11.3	36.9	178.7	121.2	299.0	16.6	(NA)	(NA)
	ALABAMA	46	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSISSIPPI	30	19	2.4	15.9	1.8	3.9	10.8	33.8	42.4	75.5	10.1	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	456	156	14.9	108.6	12.0	24.0	72.2	297.1	243.2	534.5	37.8	(NA)	(NA)
	ARKANSAS	41	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	LOUISIANA	33	7	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA	60	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	322	116	10.6	79.6	8.5	17.1	53.0	225.3	181.0	402.8	29.2	(NA)	(NA)
	WEST REGION	1 435	484	42.3	322.9	33.2	65.1	212.6	718.5	557.2	1 258.9	81.2	(NA)	(NA)
	MOUNTAIN DIVISION	187	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	IDAHO	11	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	63	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW MEXICO	17	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA	49	18	1.4	9.0	1.1	2.1	5.9	20.4	14.6	35.0	(D)	(NA)	(NA)
	UTAH	32	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	1 248	437	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WASHINGTON	101	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON	53	15	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	1 084	390	36.1	280.9	28.1	55.7	183.4	621.5	481.3	1 089.3	(D)	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Rubber and miscellaneous plastics products (SIC 30)	Tires and inner tubes (SIC 301)	Rubber and plastics footwear (SIC 302)	Reclaimed rubber (SIC 303)	Rubber and plastics hose and belting (SIC 304)	Fabricated rubber products, n.e.c. (SIC 306)	Miscellaneous plastics products (SIC 307)
ESTABLISHMENTS, TOTALNUMBER .	9 237	206	107	20	90	1 116	7 698
WITH 1 TO 19 EMPLOYEES.DO .	5 049	80	33	11	17	510	4 398
WITH 20 TO 99 EMPLOYEESDO .	2 871	40	18	5	25	376	2 407
WITH 100 EMPLOYEES OR MORE.DO .	1 317	86	56	4	48	230	893
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	617.7	107.5	31.6	.9	31.9	99.0	346.9
PAYROLL FOR YEAR, ALL EMPLOYEESMILLION DOLLARS .	5 165.2	1 214.1	182.6	9.1	309.0	808.8	2 641.6
PRODUCTION WORKERS:							
AVERAGE FOR YEAR,1,000 .	486.8	83.1	26.5	.8	22.6	77.4	276.4
MARCHDO .	469.4	81.1	26.6	.9	22.5	74.8	263.5
MAYDO .	478.3	82.3	26.6	.9	22.7	75.1	270.7
AUGUSTDO .	492.7	84.0	25.8	.6	22.6	78.2	281.4
NOVEMBERDO .	506.8	84.9	27.0	.7	22.9	81.3	290.1
MAN-HOURSMILLIONS .	968.3	168.9	49.9	1.5	45.4	153.7	548.8
JANUARY-MARCHDO .	233.1	41.9	12.7	.4	11.3	37.2	129.4
APRIL-JUNEDO .	241.8	42.4	13.0	.4	11.4	37.7	136.8
JULY-SEPTEMBERDO .	239.4	41.1	11.5	.3	11.3	37.5	137.7
OCTOBER-DECEMBERDO .	254.0	43.5	12.7	.3	11.5	41.2	144.8
WAGESMILLION DOLLARS .	3 605.0	908.1	137.5	6.9	200.1	559.7	1 792.6
COST OF MATERIALS, ETC., TOTAL ¹DO .	9 466.1	2 745.1	243.3	13.1	405.5	1 273.0	4 786.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMEDDO .	8 096.8	2 169.5	165.0	10.2	323.4	1 104.3	4 324.4
COST OF REALESDO .	868.1	492.7	29.4	.8	66.6	94.2	184.2
FUELS CONSUMEDDO .	123.3	33.7	2.0	.6	6.0	22.1	58.8
PURCHASED ELECTRIC ENERGYDO .	223.5	46.0	4.0	1.2	8.0	28.2	136.1
CONTRACT WORKDO .	154.5	3.2	42.8	.3	1.5	24.2	82.4
VALUE OF SHIPMENTS, INCLUDING REALES ¹DO .	20 923.7	5 747.1	600.0	29.7	1 020.1	2 830.9	10 695.9
VALUE OF REALESDO .	1 213.6	696.7	79.2	-	94.4	114.8	228.5
VALUE ADDED BY MANUFACTUREDO .	11 653.3	3 070.8	370.3	15.6	618.7	1 573.1	6 004.7
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTALDO .	2 345.2	694.9	120.8	3.4	150.7	307.0	1 068.4
FINISHED PRODUCTSDO .	1 239.5	455.2	85.2	2.0	84.5	126.9	485.6
WORK IN PROCESSDO .	362.4	74.4	12.7	.2	30.8	68.9	175.4
MATERIALS, SUPPLIES, FUEL, ETC.DO .	743.3	165.2	22.9	1.2	35.4	111.1	407.5
END OF YEAR, TOTALDO .	2 588.8	768.4	124.4	2.7	158.3	332.8	1 202.1
FINISHED PRODUCTSDO .	1 350.9	518.4	86.8	1.1	85.4	131.0	528.2
WORK IN PROCESSDO .	406.8	79.2	14.2	.1	33.0	76.5	203.8
MATERIALS, SUPPLIES, FUEL, ETC.DO .	831.1	170.8	23.4	1.5	39.9	125.4	470.1
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO .	1 104.4	273.3	18.1	1.0	32.3	94.5	685.2
NEW PLANT AND EQUIPMENT, TOTALDO .	1 059.6	267.1	17.7	.7	31.6	88.5	654.0
NEW STRUCTURES AND ADDITIONS TO PLANTDO .	243.5	62.2	4.1	(Z)	8.4	19.3	149.6
NEW MACHINERY AND EQUIPMENTDO .	816.1	205.0	13.6	.6	23.2	69.3	504.4
USED PLANT AND EQUIPMENTDO .	44.8	6.2	.5	.3	.7	5.9	31.2

- Represents zero. (Z) Less than half of the unit of measurement shown.

¹The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Rubber and Miscellaneous Plastics Products

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EXPLANATORY TEXT

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3011—Tires and Inner Tubes
- 3021—Rubber and Plastics Footwear
- 3031—Reclaimed Rubber
- 3041—Rubber and Plastics Hose and Belting
- 3069—Fabricated Rubber Products, N.E.C.
- 3079—Miscellaneous Plastics Products

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3011.—TIRES AND INNER TUBES

This industry comprises establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; and camelback and tire repair and retreading materials. Establishments primarily engaged in retreading tires are classified in service industry 7534, Tire Retreading and Repair Shops. For a detailed list of products of industry 3011, refer to table 6A, product codes 30111 11 to 30115 39.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Tires and Inner Tubes Industry in 1972 totaled \$5,747 million. This included shipments of tires and inner tubes (primary products) valued at \$4,870 million, shipments of other products (secondary products) valued at \$174 million, and miscellaneous receipts (mainly resales) of \$703 million.

Shipments of tires and inner tubes (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent. Secondary products shipped by this industry in 1972 consisted mainly of rubber and plastics hose and belting (\$42 million) and fabricated rubber products, n.e.c., (\$38 million).

Shipments of tires and inner tubes (primary products) from establishments classified in industry 3011 in 1972 represented 99 percent (coverage ratio) of these products valued at \$4,898 million shipped by all industries. In 1967, the coverage ratio was also 99 percent. Other industries shipping tires and inner tubes consisted mainly of industry 3069, Fabricated Rubber Products, N.E.C., (\$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3011, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3021.—RUBBER AND PLASTICS FOOTWEAR

This industry comprises establishments primarily engaged in manufacturing all rubber and plastics footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber or plastic soles vulcanized to the uppers.

Establishments primarily engaged in manufacturing rubber, composition, and fiber heels, soles, soling strips, and related shoemaking and repairing materials are classified in industry 3069; and plastic soles and soling strips in industry 3079. For a detailed list of products of industry 3021, refer to table 6A, product codes 30211 21 to 30212 98.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number from the previous classification, but were significantly changed in comparison with data classified by the previous system.

Plastics footwear, which was classified in industry 3079 in 1967, is now included in industry 3021.

Value of shipments and other receipts of the Rubber and Plastics Footwear Industry in 1972 totaled \$600 million. This included shipments of rubber and plastics footwear (primary products) valued at \$491 million, shipments of other products (secondary products) valued at \$29 million, and miscellaneous receipts (mainly resales) of \$80 million.

Shipments of rubber and plastics footwear (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of fabricated rubber products, n.e.c., (\$15 million).

Shipments of rubber and plastics footwear (primary products) from establishments classified in industry 3021 in 1972 represented 99 percent (coverage ratio) of these products valued at \$494 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3021, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3031.—RECLAIMED RUBBER

This industry comprises establishments primarily engaged in reclaiming rubber from scrap rubber tires, tubes, and miscellaneous waste rubber articles by processes which result in devulcanized, depolymerized, or regenerated replasticized products containing added ingredients. These products are sold for use as a raw material in the manufacture of rubber goods with or without admixture with crude rubber or synthetic rubber.

Establishments primarily engaged in the assembly and wholesale sale of scrap rubber are classified in trade industries.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Reclaimed Rubber Industry in 1972 totaled \$30 million. This included shipments of reclaimed rubber (primary products) valued at \$29 million and shipments of other products (secondary products) valued at \$1 million.

Shipments of reclaimed rubber (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent.

Shipments of reclaimed rubber (primary products) from establishments classified in industry 3031 in 1972 represented 55 percent (coverage ratio) of these products valued at \$52 million shipped by all industries. In 1967, the coverage ratio was 75 percent. Other industries shipping reclaimed rubber consisted mainly of industry 3011, Tires and Inner Tubes, and industry 2869, Industrial Organic Chemicals, N.E.C.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3031, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3041.—RUBBER AND PLASTICS HOSE AND BELTING

This industry comprises establishments primarily engaged in manufacturing rubber and plastics hose and belting, including garden hose. Establishments primarily engaged in manufacturing rubber tubing are classified in industry 3069, plastic tubing in industry 3079, and flexible metallic hose in industry 3599 (Machinery, Except Electrical, N.E.C.). For a detailed list of products of industry 3041, refer to table 6A, product codes 30411 11 to 30416 81.

The Rubber and Plastics Hose and Belting Industry is included for the first time in the census of manufactures for 1972. The industry includes all of 1967 product class 30691 (rubber and plastics belts and belting); all of 1967 product class 30692 (rubber hose and tubing) except code 30692 81 (tubing, except medical and surgical and reinforced); part of 1967 product class 30795 (industrial plastics products); and part of 1967 product class 30798 (consumer and commercial plastics products, n.e.c.).

Value of shipments and other receipts of the Rubber and Plastics Hose and Belting Industry in 1972 totaled \$1,020 million. This included shipments of rubber and plastics hose and belting (primary products) valued at \$789 million, shipments of other products (secondary products) valued at \$133 million, and miscellaneous receipts (mainly resales) of \$98 million.

Shipments of rubber and plastics hose and belting (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of fabricated rubber products, n.e.c., (\$45 million).

Shipments of rubber and plastics hose and belting (primary products) from establishments classified in industry 3041 in 1972 represented 89 percent (coverage ratio) of these products valued at \$886 million shipped by all industries. Other industries shipping rubber and plastics hose and belting consisted mainly of industry 3011, Tires and Inner Tubes, (\$42 million) and industry 3079, Miscellaneous Plastics Products, (\$32 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3041, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3069.—FABRICATED RUBBER PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in service industry 7534 (Tire Retreading and Repair Shops). For a detailed list of products of industry 3069, refer to table 6A, product codes 30693 11 to 30698 98.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number from the previous classification, but were significantly changed in comparison with data classified by the previous system. All of 1967 product class 30691 (rubber and plastics belts and belting) and all of 1967 product class 30692 (rubber hose and tubing) except for code 30692 81 (tubing, except medical and surgical and reinforced) are now classified in industry 3041, Rubber and Plastics Hose and Belting. Tubing, except medical and surgical and reinforced, is now included in product class 30695. In addition, seals and packing (former product codes 30695 26, 27, and 28) are now included in industry 3293; and latex and solvent-type cement (former product codes 30698 64 and 65) are now classified in industry 2891.

Value of shipments and other receipts of the Fabricated Rubber Products, N.E.C., Industry in 1972 totaled \$2,831 million. This included shipments of fabricated rubber products, n.e.c., (primary products) valued at \$2,261 million, shipments of other products (secondary products) valued at \$437 million, and miscellaneous receipts (mainly resales) of \$133 million.

Shipments of fabricated rubber products, n.e.c., (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of miscellaneous plastics products (\$141 million) and gaskets, packing and sealing devices, (\$63 million).

Shipments of fabricated rubber products, n.e.c., (primary products) from establishments classified in industry 3069 in 1972 represented 89 percent (coverage ratio) of these products valued at \$2,539 million shipped by all industries. Other industries shipping fabricated rubber products, n.e.c., consisted mainly of industry 3041, Rubber and Plastics Hose and Belting (\$45 million); industry 3011, Tires and Inner Tubes (\$38 million); and industry 3079, Miscellaneous Plastics Products (\$36 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3069, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3079.—MISCELLANEOUS PLASTICS PRODUCTS

This industry comprises establishments primarily engaged in molding primary plastics for the trade and fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in this industry, whether from purchased resins or from resins produced in the same plant. This industry also includes establishments primarily engaged in compounding purchased resins.

Establishments primarily engaged in manufacturing artificial leather are classified in industry 2295 (Coated Fabrics, Not Rubberized). For a detailed list of products of industry 3079, refer to table 6A, product codes 30791 10 to 30799 11.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number from the previous classification but were significantly changed in comparison with data classified by the previous system. The following product-class revisions were effective in 1972:

- (1) Product class 30791 (unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes) now includes

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1967 product class 28211 (unsupported plastics film, sheets, rods, and tubes made by resin manufacturers;

(2) Product class 30795 (industrial plastics products) no longer includes plastics belting (now classified in industry 3041) and plastics packing and seals including O-rings (now classified in industry 3293);

(3) New product class 30798 (regenerated cellulosic products, except rayon) was product class 28212 in 1967;

(4) New product class 30799 (custom compounded purchased resins) was product class 28217 in 1967; and

(5) New product class 30790 (consumer and commercial plastics products, n.e.c., and miscellaneous plastics products, n.s.k.) includes part of 1967 product class 30798 (consumer and commercial plastics products, n.e.c.), all of 1967 product class 28219 (plastics and resin materials, n.s.k.), and the 1967 n.s.k. class 30790 (miscellaneous plastics products, n.s.k.).

In addition, several products of old product class 30798 are now classified in other industries. Male and female arctics and gaiters; protective footwear, unlined, single film; and other rubber and plastics footwear, including beach and shower slippers, are now classified in industry 3021. Also, plastics

garden hose, including perforated sprinkler, and all other plastic hose, except garden, are now included in industry 3041.

Value of shipments and other receipts of the Miscellaneous Plastics Products Industry in 1972 totaled \$10,704 million. This included shipments of miscellaneous plastics products (primary products) valued at \$9,732 million, shipments of other products (secondary products) valued at \$616 million, and miscellaneous receipts (mainly resales) of \$355 million.

Shipments of miscellaneous plastics products (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of miscellaneous plastics products (primary products) from establishments classified in industry 3079 in 1972 represented 88 percent (coverage ratio) of these products valued at \$11,094 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3079, these establishments accounted for 8 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3011.--TIRES AND INNER TUBES															
1972 Census.....	206	126	107.5	1,214.1	83.1	168.9	908.1	3,070.8	2,745.1	5,747.1	267.1	(NA)	768.4	97	99
1971 ASM.....	(NA)	(NA)	104.8	1,075.2	80.5	157.7	796.9	2,766.8	2,468.4	5,231.9	219.5	2,827.1	699.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	103.4	970.7	79.5	149.0	712.9	2,388.6	2,284.1	4,616.4	271.6	2,668.1	686.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	102.8	1,002.9	79.5	166.5	753.6	2,304.3	2,443.2	4,716.8	342.3	2,377.6	634.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	98.2	913.8	75.8	157.0	686.1	2,078.4	2,240.5	4,241.9	274.2	2,086.0	587.0	(NA)	(NA)
1967 Census.....	182	110	92.7	774.5	71.4	136.5	573.8	1,823.0	1,895.2	3,733.9	198.8	1,867.5	526.0	95	99
1966 ASM.....	(NA)	(NA)	93.1	778.7	71.8	149.4	586.9	1,767.7	2,000.4	3,715.8	153.0	(NA)	531.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	88.7	719.4	68.2	141.5	536.4	1,607.2	1,818.3	3,381.2	159.5	(NA)	472.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	85.8	663.7	66.4	136.6	494.3	1,362.6	1,713.5	3,048.4	132.7	1,473.2	448.9	(NA)	(NA)
1963 Census.....	155	96	85.3	621.7	66.3	131.8	460.1	1,321.7	1,623.1	2,949.7	112.8	1,375.6	413.2	(D)	99
1962 ASM.....	(NA)	(NA)	86.3	618.8	67.6	137.6	463.1	1,278.1	1,602.3	2,883.7	123.3	1,379.2	408.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	86.2	569.0	66.4	129.5	419.1	1,260.8	1,443.6	2,723.0	113.8	(NA)	408.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	92.0	589.6	72.2	140.2	438.5	1,271.6	1,607.9	2,844.3	133.4	(NA)	423.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	94.6	596.4	75.3	147.0	452.0	1,313.4	1,660.6	2,947.1	73.9	(NA)	404.7	(NA)	(NA)
1958 Census.....	123	86	89.4	521.9	70.0	133.3	388.7	1,180.0	1,386.7	2,577.8	72.3	(NA)	371.8	91	99
INDUSTRY 3021.--RUBBER AND PLASTICS FOOTWEAR ²															
1972 Census, new SIC.	107	74	31.5	182.6	26.5	49.9	137.4	370.3	243.3	600.0	17.7	(NA)	149.0	94	99
1972 Census, old SIC.	81	50	27.7	158.9	23.4	44.0	121.8	326.4	215.2	529.6	15.5	(NA)	137.8	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	29.2	162.9	24.6	46.9	125.7	297.2	228.7	519.8	15.5	150.2	132.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	29.5	164.8	26.1	49.3	126.6	286.3	233.5	515.0	20.9	154.2	124.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	29.2	153.6	25.8	48.0	121.5	282.5	209.1	471.9	10.0	142.0	120.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	30.0	154.2	26.6	49.7	124.2	257.5	199.7	451.2	*16.3	136.8	98.7	(NA)	(NA)
1967 Census.....	65	55	29.1	141.1	25.7	46.5	112.8	244.9	180.1	427.0	9.6	123.2	91.3	(NA)	(NA)
1966 ASM.....	(NA)	(NA)	28.7	140.0	25.2	47.6	113.1	241.8	168.1	410.2	18.6	(NA)	90.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	30.0	139.9	26.4	49.2	113.5	245.9	160.4	398.0	9.9	(NA)	91.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	29.6	139.1	26.5	50.0	114.6	231.8	154.5	391.7	7.3	93.1	81.7	(NA)	(NA)
1963 Census.....	53	46	29.1	130.4	26.0	48.2	105.8	217.0	141.1	354.2	6.9	87.2	86.4	93	90
1962 ASM.....	(NA)	(NA)	27.1	126.4	24.2	46.6	104.2	214.1	130.6	330.4	7.4	83.0	77.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	23.8	107.4	21.1	40.8	87.2	182.3	109.0	287.2	4.8	(NA)	61.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	22.0	96.4	19.1	36.6	76.7	162.2	200.6	265.5	4.5	(NA)	58.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	22.0	95.7	19.3	37.4	77.3	161.7	98.3	250.6	4.2	(NA)	60.9	(NA)	(NA)
1958 Census.....	27	26	20.4	85.6	17.6	34.1	68.6	149.6	81.7	229.4	3.1	(NA)	49.1	(D)	(D)
INDUSTRY 3031.--RECLAIMED RUBBER															
1972 Census.....	20	9	0.9	9.1	0.7	1.5	6.9	15.6	13.1	29.7	0.7	(NA)	2.7	96	55
1971 ASM.....	(NA)	(NA)	1.2	10.6	1.0	1.9	8.1	17.8	14.5	32.1	.7	26.1	3.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	1.6	11.8	1.3	2.2	9.0	18.6	21.2	41.2	1.0	31.5	5.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	1.6	12.5	1.3	2.5	9.7	22.2	23.0	44.8	1.2	34.6	7.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	1.7	13.3	1.4	2.7	10.3	26.0	23.4	48.3	1.5	35.4	6.5	(NA)	(NA)
1967 Census.....	24	13	1.7	11.8	1.4	2.5	8.9	23.4	19.6	43.8	1.6	36.8	5.4	83	75
1966 ASM.....	(NA)	(NA)	2.0	14.0	1.6	3.0	10.3	25.3	27.6	52.7	1.3	(NA)	8.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	2.0	14.0	1.6	3.1	10.4	26.4	25.5	52.5	1.7	(NA)	7.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	1.9	13.2	1.5	3.0	9.9	24.4	20.4	44.4	3.6	39.0	6.7	(NA)	(NA)
1963 Census.....	13	13	2.0	13.6	1.7	3.1	10.4	27.4	21.7	48.9	1.3	35.7	5.8	(D)	77
1962 ASM.....	(NA)	(NA)	2.1	13.5	1.7	3.1	10.2	26.7	22.9	49.8	1.0	34.9	5.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	2.2	13.2	1.8	3.2	10.1	25.4	20.7	46.5	1.2	(NA)	5.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	2.4	14.5	2.0	3.7	11.4	29.1	21.7	49.9	2.8	(NA)	5.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	2.3	14.1	2.0	3.8	11.3	25.0	20.7	47.0	1.1	(NA)	5.0	(NA)	(NA)
1958 Census.....	16	14	2.2	11.7	1.8	3.3	9.1	20.8	18.6	39.3	1.0	(NA)	5.8	94	72
INDUSTRY 3041.--RUBBER AND PLASTICS HOSE AND BELTING															
1972 Census.....	90	73	31.9	316.3	22.6	45.4	200.1	618.7	405.5	1,020.1	31.6	(NA)	158.3	85	89
INDUSTRY 3069.--FABRICATED RUBBER PRODUCTS, N.E.C. ³															
1972 Census.....	1,103	605	99.0	808.8	77.4	153.7	559.7	1,573.1	1,273.0	2,830.9	88.5	(NA)	332.8	84	89

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3079.--MISCELLANEOUS PLASTICS PRODUCTS ²															
1972 Census, new SIC.	7,698	3,300	347.0	2,642.6	276.5	548.9	1,793.5	6,008.0	4,790.9	10,703.6	654.1	(NA)	1,202.8	94	88
1972 Census, old SIC.	7,174	3,176	328.1	2,448.9	263.1	520.1	1,668.6	5,526.6	4,323.9	9,758.6	569.8	(NA)	1,124.8	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	282.2	2,003.0	222.5	453.2	1,354.6	4,436.3	3,354.9	7,765.0	395.3	3,710.9	908.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	281.6	1,857.3	224.4	460.6	1,260.9	3,968.8	3,070.9	7,039.0	412.0	3,545.8	857.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	287.6	1,801.9	233.1	474.6	1,251.6	3,821.4	3,125.4	6,893.8	379.5	3,087.0	823.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	268.3	1,621.7	217.8	444.9	1,127.6	3,478.5	2,837.2	6,253.1	324.1	2,724.4	729.2	(NA)	(NA)
1967 Census.....	4,996	2,273	251.6	1,436.1	204.0	414.9	998.7	2,967.7	2,475.2	5,414.5	332.6	2,431.2	635.3	93	84
1966 ASM.....	(NA)	(NA)	224.0	1,221.6	182.1	377.4	844.0	2,515.6	2,187.4	4,658.3	328.7	(NA)	536.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	205.3	1,086.2	166.6	337.4	748.6	2,213.6	1,942.0	4,120.4	250.8	(NA)	459.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	178.8	935.3	144.4	299.2	643.0	1,853.5	1,662.0	3,505.4	182.2	1,424.4	388.6	(NA)	(NA)
1963 Census.....	4,334	1,674	166.3	837.6	134.3	272.0	580.0	1,660.9	1,522.9	3,165.4	157.5	1,277.5	361.0	92	80
1962 ASM.....	(NA)	(NA)	153.8	765.1	123.4	252.2	517.7	1,466.7	1,381.9	2,819.6	143.6	1,138.7	324.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	136.8	665.1	108.0	221.1	446.8	1,254.3	1,235.0	2,473.2	112.9	(NA)	290.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	134.0	627.5	106.2	216.2	424.0	1,147.9	1,172.1	2,303.2	105.7	(NA)	272.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	129.5	583.8	103.1	209.5	401.5	1,093.7	1,129.8	2,217.7	86.7	(NA)	254.4	(NA)	(NA)
1958 Census.....	3,222	1,143	116.3	511.2	92.0	183.3	348.9	928.9	948.3	1,867.9	77.2	(NA)	235.8	91	85

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry 3011	1972 industry 3021	1972 industry 3031	1972 industry 3041	1972 industry 3069	1972 industry 3079	1967 industry 3021	1967 industry 3069	1967 industry 3079
1972.....	136	82	19	68	965	6,795	(X)	(X)	(X)
1967.....	119	(X)	19	(X)	(X)	(X)	51	1,024	4,495
1963.....	105	(X)	7	(X)	(X)	(X)	44	1,046	4,101

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²New SIC industries 3021 and 3079 are not directly comparable to old SIC industries 3021 and 3079, respectively. However, the degree of change for industry statistics is less than 15 percent.

³New SIC industry 3069 is not comparable to old SIC industry 3069. The degree of change for industry statistics exceeds 15 percent.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3011.--TIRES AND INNER TUBES											
1972 Census.....	11,293	(NA)	77	2,032	5.38	.48	.69	(NA)	28,565	40	18.18
1971 ASM.....	10,260	26,976	77	1,959	5.05	.47	.68	.54	26,401	39	17.55
1970 ASM.....	9,388	25,804	77	1,874	4.79	.50	.71	.58	23,101	41	16.03
1969 ASM.....	9,756	23,130	77	2,094	4.53	.52	.73	.50	22,415	44	13.84
1968 ASM.....	9,305	21,240	77	2,071	4.37	.53	.74	.49	21,165	44	13.24
1967 Census.....	8,356	20,150	77	1,911	4.20	.51	.71	.50	19,669	42	13.35
1966 ASM.....	8,368	(NA)	77	2,082	3.93	.54	.75	(NA)	18,995	44	11.83
1965 ASM.....	8,110	(NA)	77	2,075	3.79	.54	.75	(NA)	18,119	45	11.35
1964 ASM.....	7,731	17,170	77	2,057	3.62	.56	.78	.48	15,873	49	9.97
1963 Census.....	7,292	16,130	78	1,989	3.49	.55	.76	.47	15,502	47	10.03
1962 ASM.....	7,169	15,980	78	2,036	3.37	.56	.77	.48	14,807	48	9.29
1961 ASM.....	6,598	(NA)	77	1,951	3.24	.53	.74	(NA)	14,621	45	9.74
1960 ASM.....	6,408	(NA)	78	1,940	3.13	.57	.77	(NA)	13,821	46	9.07
1959 ASM.....	6,304	(NA)	80	1,952	3.07	.56	.77	(NA)	13,883	45	8.94
1958 Census.....	5,838	(NA)	78	1,905	2.92	.54	.74	(NA)	13,199	44	8.85

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3021.--RUBBER AND PLASTICS FOOTWEAR ¹											
1972 Census, new SIC...	5,796	(NA)	84	1,882	2.75	.40	.71	(NA)	11,755	49	7.42
1972 Census, old SIC...	5,736	(NA)	84	1,880	2.77	.41	.71	(NA)	11,783	49	7.42
1971 ASM.....	5,579	5,144	84	1,906	2.68	.44	.75	.29	10,178	55	6.34
1970 ASM.....	5,586	5,227	88	1,889	2.57	.45	.77	.30	9,705	58	5.81
1969 ASM.....	5,260	4,863	88	1,860	2.53	.44	.77	.30	9,675	54	5.89
1968 ASM.....	5,140	4,560	89	1,868	2.50	.44	.78	.30	8,583	60	5.18
1967 Census.....	4,844	4,234	88	1,813	2.42	.42	.75	.29	8,407	58	5.26
1966 ASM.....	4,871	(NA)	88	1,888	2.37	.41	.75	(NA)	8,413	58	5.08
1965 ASM.....	4,667	(NA)	88	1,867	2.31	.40	.75	(NA)	8,205	57	4.99
1964 ASM.....	4,695	3,145	89	1,888	2.29	.39	.75	.24	7,824	60	4.64
1963 Census.....	4,473	2,997	89	1,856	2.20	.40	.77	.25	7,444	60	4.50
1962 ASM.....	4,663	2,852	89	1,920	2.24	.40	.78	.25	7,896	59	4.60
1961 ASM.....	4,520	(NA)	87	1,936	2.14	.38	.75	(NA)	7,669	59	4.47
1960 ASM.....	4,389	(NA)	87	1,918	2.09	.38	.74	(NA)	7,382	59	4.43
1959 ASM.....	4,359	(NA)	88	1,935	2.07	.39	.77	(NA)	7,368	59	4.33
1958 Census.....	4,205	(NA)	86	1,939	2.01	.36	.73	(NA)	7,348	57	4.38
INDUSTRY 3031.--RECLAIMED RUBBER											
1972 Census.....	10,111	(NA)	89	1,875	4.60	.44	.75	(NA)	17,333	58	10.40
1971 ASM.....	8,833	21,750	83	1,900	4.26	.45	.78	.81	14,833	60	9.37
1970 ASM.....	7,375	19,688	81	1,692	4.09	.52	.80	.76	11,625	63	8.46
1969 ASM.....	7,813	21,630	81	1,923	3.88	.51	.79	.77	13,875	56	8.88
1968 ASM.....	7,824	20,820	82	1,929	3.81	.48	.76	.73	15,294	51	9.63
1967 Census.....	6,833	21,650	81	1,772	3.58	.45	.72	.84	13,517	51	9.42
1966 ASM.....	7,037	(NA)	80	1,922	3.39	.52	.79	(NA)	12,763	55	8.34
1965 ASM.....	7,056	(NA)	80	1,955	3.34	.49	.75	(NA)	13,304	53	8.50
1964 ASM.....	7,025	20,530	81	1,932	3.34	.46	.76	.88	12,932	54	8.21
1963 Census.....	6,765	17,850	82	1,897	3.31	.44	.72	.73	13,621	50	8.71
1962 ASM.....	6,463	16,620	81	1,842	3.25	.46	.73	.70	12,802	50	8.53
1961 ASM.....	5,916	(NA)	81	1,776	3.14	.44	.73	(NA)	11,427	52	7.90
1960 ASM.....	6,007	(NA)	83	1,846	3.07	.44	.73	(NA)	12,070	50	7.83
1959 ASM.....	6,049	(NA)	84	1,908	2.99	.44	.74	(NA)	10,690	57	6.63
1958 Census.....	5,263	(NA)	81	1,857	2.73	.47	.77	(NA)	9,410	56	6.26
INDUSTRY 3041.--RUBBER AND PLASTICS HOSE AND BELTING											
1972 Census.....	9,915	(NA)	71	2,009	4.41	.40	.71	(NA)	19,395	51	13.63
INDUSTRY 3069.--FABRICATED RUBBER PRODUCTS, N.E.C.											
1972 Census.....	8,170	(NA)	78	1,985	3.64	.45	.74	(NA)	15,890	51	10.23
INDUSTRY 3079.--MISCELLANEOUS PLASTICS PRODUCTS ¹											
1972 Census, new SIC...	7,616	(NA)	80	1,985	3.27	.45	.69	(NA)	17,314	44	10.95
1972 Census, old SIC...	7,464	(NA)	80	1,977	3.21	.44	.69	(NA)	16,844	44	10.63
1971 ASM.....	7,098	13,150	79	2,037	2.99	.43	.71	.48	15,720	45	9.79
1970 ASM.....	6,596	12,592	80	2,053	2.74	.44	.71	.50	14,094	47	8.62
1969 ASM.....	6,265	10,734	81	2,036	2.64	.45	.70	.45	13,287	47	8.05
1968 ASM.....	6,044	10,154	81	2,043	2.53	.45	.69	.44	12,965	47	7.82
1967 Census.....	5,708	9,663	81	2,034	2.41	.46	.72	.45	11,796	48	7.15
1966 ASM.....	5,453	(NA)	81	2,073	2.24	.47	.73	(NA)	11,229	49	6.67
1965 ASM.....	5,291	(NA)	81	2,026	2.22	.47	.73	(NA)	10,784	49	6.56
1964 ASM.....	5,230	7,966	81	2,072	2.15	.47	.74	.41	10,365	50	6.19
1963 Census.....	5,036	7,682	81	2,025	2.13	.48	.75	.40	9,986	50	6.11
1962 ASM.....	4,975	7,404	80	2,044	2.05	.49	.76	.40	9,537	52	5.82
1961 ASM.....	4,861	(NA)	79	2,048	2.02	.50	.77	(NA)	9,168	53	5.67
1960 ASM.....	4,682	(NA)	79	2,035	1.96	.51	.78	(NA)	8,565	55	5.31
1959 ASM.....	4,507	(NA)	80	2,031	1.92	.51	.77	(NA)	8,444	53	5.22
1958 Census.....	4,395	(NA)	79	1,992	1.90	.51	.78	(NA)	7,987	55	5.07

(NA) Not available.

¹The 1972 data on the new SIC basis are not strictly comparable to 1972 and prior-year data on the old SIC basis. (See footnote 2, table 1A.)

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3021.--Rubber and Plastics Footwear.....	107	74	31.5	370.3	600.0	(X)	(X)	(X)	(X)	(X)
Old industry 3021.--Rubber Footwear.....	81	50	28.0	332.5	536.7	81	50	27.7	326.4	529.6
Old industry 3079.--Miscellaneous Plastics Products.....	26	24	3.5	37.8	63.3	7,174	317.6	328.1	5,526.6	9,758.6
New industry 3041.--Rubber and Plastics Hose and Belting...	90	73	31.9	618.7	1,020.1	(X)	(X)	(X)	(X)	(X)
Old industry 3069.--Fabricated Rubber Products, N.E.C....	73	61	30.1	579.6	949.3	1,300	750	143.6	2,396.6	4,145.8
Old industry 3079.--Miscellaneous Plastics Products.....	17	12	1.8	39.1	70.8	7,174	317.6	328.1	5,526.6	9,758.6
New industry 3069.--Fabricated Rubber Products, N.E.C.....	1,116	605	99.0	1,573.1	2,830.9	(X)	(X)	(X)	(X)	(X)
Old industry 3069.--Fabricated Rubber Products, N.E.C.....	1,116	605	99.0	1,573.1	2,830.9	1,300	750	143.6	2,396.6	4,145.8
New industry 3079.--Miscellaneous Plastics Products.....	7,698	3,300	347.0	6,008.0	10,703.6	(X)	(X)	(X)	(X)	(X)
Old industry 2821.--Plastics Materials and Resins.....	612	198	25.9	570.5	1,115.5	988	488	82.4	2,762.7	5,696.0
Old industry 3079.--Miscellaneous Plastics Products.....	7,086	3,102	321.1	5,437.5	9,588.1	7,174	317.6	328.1	5,526.6	9,758.6

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3011-- TIRES AND INNER TUBES													
UNITED STATES.	206	126	107.5	1 214.1	83.1	168.9	908.1	3 070.8	2 745.1	5 747.1	267.1	92.7	1 823.0
NORTHEAST REGION	32	17	13.1	140.1	10.6	21.8	109.6	351.5	362.1	693.1	15.1	11.6	229.0
NEW ENGLAND DIVISION	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS.	6	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION	21	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA	14	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.2	122.6
NORTH CENTRAL REGION	62	39	50.0	599.4	36.8	74.6	430.1	1 424.8	1 223.5	2 617.6	130.8	50.2	986.1
EAST NORTH CENTRAL DIVISION.	50	32	41.9	503.7	30.1	60.7	350.7	1 155.5	1 019.0	2 147.6	110.8	42.7	817.2
OHIO	27	19	26.9	328.0	18.6	37.3	218.2	758.3	671.6	1 416.2	71.6	31.1	576.9
INDIANA	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN	6	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WISCONSIN.	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION.	12	7	8.1	95.7	6.8	13.9	79.4	269.3	204.5	470.0	20.1	7.5	169.0
IOWA	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
KANSAS	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION	80	51	35.9	374.4	29.2	59.3	293.8	1 052.4	957.8	1 997.1	111.9	21.9	452.7
SOUTH ATLANTIC DIVISION.	28	17	9.4	94.9	7.4	15.0	70.9	283.2	263.1	543.6	37.8	4.0	78.2
MARYLAND	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
VIRGINIA	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA	7	4	2.7	25.9	2.1	4.5	19.0	87.8	82.9	169.4	9.7	AA	(D)
GEORGIA.	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION.	28	19	17.1	186.5	14.2	29.6	150.6	518.6	458.1	965.7	42.1	12.1	230.8
KENTUCKY	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE.	12	9	5.5	60.4	4.5	9.5	47.4	179.6	131.3	306.1	18.9	FF	(D)
ALABAMA.	10	6	8.0	90.2	6.8	14.5	75.0	251.8	218.7	465.6	12.5	5.6	134.1
MISSISSIPPI.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION.	24	15	9.4	93.0	7.6	14.7	72.3	250.6	236.6	487.7	32.1	5.7	143.7
ARKANSAS	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OKLAHOMA	7	5	4.3	41.6	3.5	6.6	32.4	102.3	99.9	202.4	21.4	EE	(D)
TEXAS.	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	59.4
WEST REGION.	32	19	8.5	100.2	6.5	13.2	74.6	242.1	201.8	439.2	9.2	9.0	155.1
MOUNTAIN DIVISION.	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
COLORADO	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PACIFIC DIVISION	27	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA	22	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3021-- RUBBER AND PLASTICS FOOTWEAR													
UNITED STATES.	107	74	31.5	182.6	26.5	49.9	137.4	370.3	243.3	600.0	17.7	29.1	244.9
NORTHEAST REGION.	53	41	16.3	99.1	13.3	24.8	71.7	221.1	149.6	358.1	13.0	11.6	229.0
NEW ENGLAND DIVISION.	29	25	12.0	76.8	9.5	17.9	54.2	178.2	118.0	284.0	9.6	FF	(D)
MAINE.	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE.	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
RHODE ISLAND.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION.	24	16	4.2	22.3	3.7	6.9	17.5	42.9	31.7	74.2	3.3	FF	(D)
NEW YORK.	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY.	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	9	7	2.2	10.5	2.0	3.6	8.9	16.8	13.9	31.2	2.4	6.2	122.6
NORTH CENTRAL REGION.	18	8	2.8	18.1	2.5	4.6	13.7	32.3	16.3	47.5	1.0	50.2	986.1
EAST NORTH CENTRAL DIVISION.	14	5	2.5	16.0	2.3	4.1	12.2	29.4	14.1	42.5	(D)	42.7	817.2
OHIO.	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	31.1	576.9
INDIANA.	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS.	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION.	4	3	.3	2.1	.3	.5	1.5	2.8	2.3	5.0	(D)	7.5	169.0
MISSOURI.	4	3	.3	2.1	.3	.5	1.5	2.8	2.3	5.0	(D)	BB	(D)
SOUTH REGION.	27	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.9	452.7
SOUTH ATLANTIC DIVISION.	18	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	78.2
MARYLAND.	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
VIRGINIA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST VIRGINIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA.	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH CAROLINA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
FLORIDA.	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.1	230.8
TENNESSEE.	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION.	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.7	34.2
ARKANSAS.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.0	155.1
MOUNTAIN DIVISION.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
COLORADO.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PACIFIC DIVISION.	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.0	136.3
3031-- RECLAIMED RUBBER													
UNITED STATES.	20	9	.9	9.1	.7	1.5	6.9	15.6	13.1	29.7	.7	1.7	23.4
NORTH CENTRAL REGION.	10	6	.6	5.8	.5	.9	4.4	8.7	9.0	18.8	.5	1.2	16.1
EAST NORTH CENTRAL DIVISION.	10	6	.6	5.8	.5	.9	4.4	8.7	9.0	18.8	.5	EE	(D)
OHIO.	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION.	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSISSIPPI.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3041-- RUBBER, PLASTICS HOSE AND BELTING													
UNITED STATES.	90	73	31.9	316.3	22.6	45.4	200.1	618.7	405.5	1 020.1	31.6	(NA)	(NA)
NORTHEAST REGION.	33	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	28	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY.	18	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	33	29	14.4	153.6	9.7	19.1	87.5	257.4	183.2	438.6	11.6	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	28	23	11.5	122.2	7.2	14.2	66.4	193.5	156.8	351.4	(D)	(NA)	(NA)
OHIO.	15	12	8.6	93.0	4.9	9.3	45.6	134.4	117.2	252.0	7.6	(NA)	(NA)
INDIANA.	3	3	.3	2.4	.3	.6	1.8	3.5	3.3	6.7	(D)	(NA)	(NA)
ILLINOIS.	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	8	7	3.9	34.0	3.3	6.5	27.2	79.5	40.4	116.7	(D)	(NA)	(NA)
MINNESOTA.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3041-- RUBBER, PLASTICS HOSE AND BELTING--CONTINUED													
SOUTH REGION	11	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION,	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DELAWARE	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION, . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION, . .	3	3	.8	4.9	.7	1.4	4.0	11.9	9.3	20.7	.5	(NA)	(NA)
ARKANSAS	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION,	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION,	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	10	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	9	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3069-- FABRICATED RUBBER PRODUCTS, NEC													
UNITED STATES,	1 116	605	99.0	808.8	77.4	153.7	559.7	1 573.1	1 273.0	2 830.9	88.5	(NA)	(NA)
NORTHEAST REGION	319	167	26.0	217.7	19.5	39.6	143.5	401.2	275.4	673.7	22.8	(NA)	(NA)
NEW ENGLAND DIVISION	132	81	14.3	122.1	10.7	22.0	82.4	230.6	169.5	401.9	12.7	(NA)	(NA)
NEW HAMPSHIRE	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VERMONT	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	61	41	7.7	66.9	5.7	11.8	44.3	128.5	86.5	216.2	(D)	(NA)	(NA)
RHODE ISLAND	16	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT	43	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	186	85	11.7	94.9	8.7	17.6	60.7	167.8	104.2	267.8	10.1	(NA)	(NA)
NEW YORK	68	21	3.6	28.9	2.9	5.7	19.9	56.0	39.1	93.2	2.7	(NA)	(NA)
NEW JERSEY	69	39	4.4	33.4	3.4	6.8	22.4	59.3	39.8	97.3	4.0	(NA)	(NA)
PENNSYLVANIA	49	25	3.7	32.7	2.5	5.1	18.5	52.5	25.3	77.3	3.4	(NA)	(NA)
NORTH CENTRAL REGION	417	248	45.3	400.9	36.1	71.4	286.3	748.5	583.1	1 329.1	41.5	(NA)	(NA)
EAST NORTH CENTRAL DIVISION, . .	369	224	42.2	378.3	33.5	66.9	269.8	703.3	542.8	1 243.6	38.5	(NA)	(NA)
OHIO	171	101	22.6	209.5	17.8	35.2	148.6	387.0	289.5	676.4	22.9	(NA)	(NA)
INDIANA	56	39	11.0	98.6	8.6	17.2	71.4	172.5	158.7	329.7	8.3	(NA)	(NA)
ILLINOIS	61	37	3.2	25.6	2.5	4.9	18.1	55.9	34.7	90.5	(D)	(NA)	(NA)
MICHIGAN	57	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	24	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION, . .	49	25	3.2	23.9	2.6	4.7	17.3	47.3	41.2	88.5	3.1	(NA)	(NA)
MINNESOTA	22	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	13	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH DAKOTA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	205	116	20.1	131.5	16.1	31.3	92.5	310.7	318.7	622.2	18.7	(NA)	(NA)
SOUTH ATLANTIC DIVISION,	113	65	10.8	70.4	8.8	17.1	49.0	183.8	186.8	364.6	12.3	(NA)	(NA)
DELAWARE	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	13	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	18	9	1.0	5.6	.9	1.7	4.0	17.3	17.2	34.5	.4	(NA)	(NA)
SOUTH CAROLINA	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	31	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	22	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION, . .	39	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	13	11	2.1	16.4	1.7	3.7	11.9	32.1	58.9	90.2	2.1	(NA)	(NA)
ALABAMA	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	11	7	1.3	8.2	1.0	2.0	5.7	16.3	15.3	31.7	.9	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION, . .	55	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	39	18	2.3	16.4	1.8	3.5	11.3	33.2	29.3	62.5	.9	(NA)	(NA)
WEST REGION,	175	74	7.7	58.7	5.8	11.4	37.5	112.8	95.8	205.9	4.8	(NA)	(NA)
MOUNTAIN DIVISION,	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	160	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON	11	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	144	58	6.2	46.7	4.6	9.2	30.0	95.4	82.4	175.0	4.0	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3079-- MISCELLANEOUS PLASTICS PRODUCTS													
UNITED STATES	7 698	3 300	347.0	2 642.6	276.5	548.9	1 793.5	6 008.0	4 790.9	10 703.6	654.1	251.1	2 967.7
NORTHEAST REGION E1	2 401	1 084	109.6	821.8	86.8	172.5	553.2	1 785.9	1 430.8	3 196.8	173.3	92.6	1 027.6
NEW ENGLAND DIVISION E1	674	305	32.5	229.1	26.1	51.5	152.8	542.8	404.2	940.9	45.1	30.3	335.1
MAINE	16	7	1.6	10.3	1.3	2.5	6.8	32.1	24.7	56.9	1.1	1.7	15.2
NEW HAMPSHIRE	38	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	32.2
VERMONT	16	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	8.3
MASSACHUSETTS	378	183	16.8	120.7	13.5	26.5	79.7	266.5	218.6	483.3	25.0	15.5	168.0
RHODE ISLAND E1	72	30	3.9	28.1	2.9	5.7	17.1	99.0	53.8	151.7	7.8	2.3	45.2
CONNECTICUT	154	61	5.7	41.5	4.5	8.7	27.5	82.1	61.4	143.1	5.3	6.2	66.2
MIDDLE ATLANTIC DIVISION E1	1 727	779	77.1	592.7	60.7	121.0	400.4	1 243.1	1 026.6	2 255.9	128.2	62.3	692.5
NEW YORK E1	785	329	29.4	221.1	23.2	46.0	146.5	453.9	356.9	803.7	40.3	25.0	263.7
NEW JERSEY E1	558	279	26.6	215.4	21.2	42.7	146.0	459.2	382.1	836.7	60.8	22.1	257.0
PENNSYLVANIA	384	171	21.1	156.2	16.3	32.3	107.9	330.0	287.6	615.5	27.1	15.2	171.8
NORTH CENTRAL REGION	2 433	1 171	130.8	1 022.6	104.9	208.6	706.3	2 204.2	1 763.4	3 930.7	220.1	102.2	1 175.5
EAST NORTH CENTRAL DIVISION	1 927	944	108.9	859.0	87.5	174.3	593.9	1 827.9	1 474.0	3 271.7	175.2	87.5	1 014.9
OHIO	546	274	37.5	308.3	30.2	60.4	218.8	711.1	531.0	1 232.6	56.7	28.9	355.9
INDIANA	208	106	16.4	124.3	13.1	26.7	88.9	244.5	205.5	443.9	26.3	13.1	148.0
ILLINOIS	581	281	28.5	223.0	22.9	45.3	149.3	450.9	361.1	805.7	49.4	26.8	307.9
MICHIGAN	416	194	18.3	140.0	14.7	28.7	93.6	284.6	264.2	543.7	29.7	12.7	133.9
WISCONSIN	176	89	8.2	63.4	6.6	13.2	43.3	136.8	112.2	245.8	13.1	6.0	69.1
WEST NORTH CENTRAL DIVISION	506	227	21.9	163.6	17.4	34.3	112.4	376.3	289.4	659.1	44.9	14.7	160.6
MINNESOTA	174	71	6.5	50.5	5.0	9.8	33.2	106.5	76.6	182.9	13.6	3.8	46.6
IOWA	57	32	4.5	37.2	3.5	6.9	25.8	84.8	63.3	146.8	9.1	3.4	35.8
MISSOURI E1	159	77	6.8	46.2	5.7	11.2	33.8	108.8	82.1	188.8	12.0	6.0	62.4
NEBRASKA E1	23	14	1.3	8.6	1.0	1.9	5.4	18.5	14.5	31.8	1.0	.7	7.0
KANSAS	77	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	8.5
SOUTH REGION	1 429	561	64.3	475.3	51.5	102.7	321.4	1 299.2	1 039.3	2 317.2	179.5	32.7	460.7
SOUTH ATLANTIC DIVISION	743	299	34.4	256.2	27.5	55.1	172.2	625.3	509.3	1 124.1	102.3	17.6	233.5
DELAWARE	27	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND	65	29	3.4	24.2	2.6	5.2	15.9	53.5	41.3	93.9	7.3	1.9	17.5
VIRGINIA	53	27	6.6	56.9	5.2	10.5	39.5	150.4	114.4	263.6	17.2	3.7	42.0
WEST VIRGINIA	17	6	.4	2.4	.4	.7	2.0	5.5	3.8	9.0	(D)	(NA)	(NA)
NORTH CAROLINA	125	65	7.9	53.4	6.3	12.5	34.5	132.4	125.6	255.3	(D)	3.1	35.3
SOUTH CAROLINA	52	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	59.2
GEORGIA E1	110	47	3.6	23.7	3.0	6.0	16.2	60.0	53.7	112.2	(D)	1.5	31.4
FLORIDA E1	291	87	6.3	41.7	5.2	10.3	29.7	99.2	66.9	164.0	13.3	2.8	28.2
EAST SOUTH CENTRAL DIVISION	230	106	14.9	110.5	12.0	23.6	77.0	376.8	286.8	658.6	39.4	6.8	119.8
KENTUCKY	50	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	12.3
TENNESSEE	104	46	6.9	49.0	5.9	11.3	36.9	178.7	121.2	299.0	16.6	2.3	36.9
ALABAMA	46	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	55.6
MISSISSIPPI	30	19	2.4	16.0	1.9	3.8	10.8	33.7	42.5	75.5	10.2	1.1	15.0
WEST SOUTH CENTRAL DIVISION	456	156	15.0	108.6	12.0	24.0	72.2	297.1	243.2	534.5	37.8	8.3	107.4
ARKANSAS E1	41	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	24.9
LOUISIANA E1	33	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.2
OKLAHOMA E2	60	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	11.3
TEXAS	322	116	10.6	79.7	8.6	17.1	53.0	225.3	181.0	402.8	29.2	5.1	69.0
WEST REGION E1	1 435	484	42.3	322.9	33.3	65.1	212.6	718.7	557.4	1 258.9	81.2	24.1	304.0
MOUNTAIN DIVISION E2	187	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	13.1
IDAHO E1	11	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO E1	63	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	7.2
NEW MEXICO E7	17	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.0
ARIZONA E1	49	18	1.4	9.0	1.1	2.1	5.9	20.4	14.6	35.0	2.8	BB	(D)
UTAH E2	32	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.4
PACIFIC DIVISION E1	1 248	437	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22.8	290.8
WASHINGTON E1	101	29	1.7	13.2	1.4	2.5	9.3	27.4	26.1	52.3	2.8	.7	8.9
OREGON E2	53	15	.9	6.6	.8	1.4	4.5	13.2	12.8	25.7	1.7	.3	2.6
CALIFORNIA E1	1 084	390	36.1	280.9	28.1	55.7	183.4	621.5	481.3	1 089.3	62.6	21.8	278.4

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

(See appendix. Explanation of Terms)

- Represents zero. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

(See appendix, Explanation of Terms)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3021-- RUBBER AND PLASTICS FOOTWEAR											
ESTABLISHMENTS, TOTAL.	107	31.5	182.6	26.5	49.9	137.4	370.2	243.3	600.0	17.7	149.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	16	(Z)	.2	(Z)	.1	.1	.5	.4	.9	(Z)	.2
5 TO 9 EMPLOYEES E7	10	.1	.4	.1	.1	.3	1.6	1.4	3.0	.1	.6
10 TO 19 EMPLOYEES E7	7	.1	.5	.1	.2	.4	1.1	.8	1.9	.1	.5
20 TO 49 EMPLOYEES	7	1.0	5.2	.9	1.6	4.0	10.6	8.0	18.0	.8	2.9
50 TO 99 EMPLOYEES	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	20	10.3	57.0	9.0	17.1	44.0	98.5	82.2	179.8	10.6	34.8
250 TO 499 EMPLOYEES	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	10	6.9	38.8	6.1	11.6	32.3	72.6	32.7	104.8	2.1	14.0
1,000 TO 2,499 EMPLOYEES	6	13.0	79.8	10.4	19.4	56.4	185.4	117.2	291.7	4.0	96.0
2,500 EMPLOYEES OR MORE.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	20	.1	.6	.1	.2	.4	2.0	1.5	3.5	.1	.9
3031-- RECLAIMED RUBBER											
ESTABLISHMENTS, TOTAL.	20	.9	9.1	.7	1.5	6.9	15.6	13.1	29.7	.7	2.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	6	(Z)	.4	(Z)	.1	.3	.7	.9	1.6	(Z)	.2
5 TO 9 EMPLOYEES E7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	5	.2	1.8	.2	.4	1.4	4.6	3.0	7.5	.2	.7
20 TO 49 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 TO 99 EMPLOYEES	4	.7	6.9	.5	1.0	5.2	10.4	9.2	20.6	.5	1.8
100 TO 249 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES											
ESTABS. COVERED BY ADMIN. RECORD ¹ .	8	(Z)	.3	(Z)	(Z)	.2	.6	.6	1.2	(Z)	.2
3041-- RUBBER, PLASTICS HOSE AND BELTING											
ESTABLISHMENTS, TOTAL.	90	31.9	316.3	22.6	45.4	200.1	618.7	405.5	1 020.1	31.6	158.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	2	(Z)	.5	(Z)	.2	.2	1.1	1.3	2.4	.1	.5
5 TO 9 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	9	.2	1.3	.1	.2	.6	2.5	3.2	5.8	.2	.7
20 TO 49 EMPLOYEES	16	.6	5.1	.4	.9	2.9	10.9	11.7	22.7	.2	3.4
50 TO 99 EMPLOYEES	9	.7	5.5	.5	1.1	3.6	11.3	11.0	21.0	1.0	3.6
100 TO 249 EMPLOYEES	20	3.3	27.8	2.6	5.4	19.9	63.0	42.2	104.1	3.7	18.4
250 TO 499 EMPLOYEES	9	3.1	26.6	2.1	4.4	16.1	54.0	45.9	98.2	3.4	26.2
500 TO 999 EMPLOYEES	12	8.3	83.0	6.0	12.2	51.9	181.6	101.2	282.3	4.9	48.9
1,000 TO 2,499 EMPLOYEES	5	15.8	166.5	10.8	21.3	105.0	234.3	189.0	482.5	18.1	56.6
2,500 EMPLOYEES OR MORE.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3069-- FABRICATED RUBBER PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL.	1 116	99.0	808.8	77.4	153.7	559.7	1 573.1	1 273.0	2 830.9	88.5	332.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	259	.5	3.8	.4	.7	2.4	10.8	8.1	18.9	.7	2.5
5 TO 9 EMPLOYEES E6	123	.8	6.5	.6	1.2	4.0	13.6	10.6	24.1	.8	2.8
10 TO 19 EMPLOYEES E2	128	1.8	13.8	1.3	2.6	8.6	28.8	23.3	53.5	2.9	5.2
20 TO 49 EMPLOYEES	232	7.6	56.4	6.0	11.3	37.0	126.4	129.2	254.1	8.6	20.1
50 TO 99 EMPLOYEES	144	10.2	76.8	8.2	16.0	51.8	157.2	146.1	301.0	10.5	29.8
100 TO 249 EMPLOYEES	141	23.0	175.3	18.7	36.7	124.0	349.4	292.9	641.0	19.9	66.3
250 TO 499 EMPLOYEES	52	18.3	144.8	14.3	29.0	101.2	252.6	164.9	414.6	9.8	54.9
500 TO 999 EMPLOYEES	24	15.8	124.8	12.4	25.0	99.7	229.6	197.5	426.9	12.0	52.7
1,000 TO 2,499 EMPLOYEES	12	20.9	206.7	15.4	31.1	141.1	404.7	300.4	696.9	23.2	97.9
2,500 EMPLOYEES OR MORE.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	275	.9	6.7	.7	1.3	4.4	15.9	12.4	28.3	1.0	4.0
3079-- MISCELLANEOUS PLASTICS PRODUCTS											
ESTABLISHMENTS, TOTAL.	7 698	347.0	2 642.6	276.5	548.9	1 793.5	6 008.0	4 790.9	10 703.6	654.1	1 202.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	2 186	4.2	28.9	4.0	6.5	19.2	73.8	61.2	137.1	10.5	15.1
5 TO 9 EMPLOYEES E7	1 106	7.3	51.6	5.7	11.3	33.9	116.1	92.7	208.2	13.0	23.1
10 TO 19 EMPLOYEES E2	1 106	15.3	115.4	12.0	23.4	73.9	244.4	218.4	460.6	34.7	44.6
20 TO 49 EMPLOYEES E1	1 513	48.6	338.9	39.3	75.3	224.8	734.6	633.6	1 356.2	105.5	128.3
50 TO 99 EMPLOYEES	893	62.5	441.1	50.6	98.7	299.8	1 004.3	867.9	1 851.2	130.4	195.2
100 TO 249 EMPLOYEES	668	102.5	763.1	82.3	164.5	522.5	1 667.0	1 410.4	3 039.2	191.3	370.3
250 TO 499 EMPLOYEES	167	56.4	435.5	44.5	90.6	302.1	1 007.8	759.2	1 753.1	88.2	209.2
500 TO 999 EMPLOYEES	46	32.3	280.3	25.7	53.1	195.9	731.7	485.5	1 211.6	49.6	158.2
1,000 TO 2,499 EMPLOYEES	13	17.9	187.8	12.4	25.5	121.4	428.3	262.0	685.0	30.3	73.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	2 507	9.6	65.2	8.1	15.1	43.7	148.2	120.9	269.1	15.7	30.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3011	TIRES AND INNER TUBES										
	ENTIRE INDUSTRY	206	107.5	1 214.1	83.1	168.9	908.1	3 070.8	2 745.1	5 747.1	267.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	199	96.3	1 070.8	76.1	153.9	821.5	2 810.1	2 532.8	5 276.6	232.3
30111	PASSENGER CAR AND MOTORCYCLE PNEUMATIC TIRES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	48	79.0	913.9	60.1	122.2	677.9	2 210.6	1 930.6	4 086.8	172.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	25	28.5	306.8	22.5	46.3	235.9	898.3	852.0	1 730.8	83.4
30112	TRUCK, BUS, AND OFF-HIGHWAY PNEUMATIC TIRES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	10	16.7	196.0	14.0	28.8	160.2	647.8	615.1	1 253.6	70.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
30113	OTHER PNEUMATIC TIRES AND SOLID TIRES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	24	5.9	53.5	4.2	7.7	32.1	86.1	65.7	150.9	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	19	1.9	12.6	1.5	2.3	8.0	27.9	26.0	53.9	1.1
30114	ALL INNER TUBES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	9	2.8	25.5	2.4	5.3	20.1	53.5	46.2	98.7	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
30115	TREAD RUBBER, TIRE SUNDRIES, REPAIR MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	50	2.8	22.8	2.2	4.6	16.0	67.7	82.4	147.8	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	46	2.5	20.5	2.0	4.1	14.5	63.5	78.2	139.5	4.5
3021	RUBBER AND PLASTICS FOOTWEAR										
	ENTIRE INDUSTRY	107	31.5	182.6	26.5	49.9	137.4	370.3	243.3	600.0	17.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	103	29.9	173.3	25.2	47.2	130.5	347.1	234.5	569.1	16.9
30211	RUBBER AND PLASTICS PROTECTIVE FOOTWEAR (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	16	3.9	24.2	3.3	6.3	18.2	45.1	31.6	76.6	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	12	2.1	14.3	1.7	3.2	9.7	26.8	15.6	42.4	1.0
30212	RUBBER, PLASTICS SHOES, SLIPPERS, OTHER NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	58	27.4	156.3	23.0	43.2	118.2	321.5	209.2	517.1	16.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	50	22.5	129.1	18.8	35.4	96.9	272.0	174.3	431.3	10.7
3031	RECLAIMED RUBBER										
	ENTIRE INDUSTRY	20	.9	9.1	.7	1.5	6.9	15.6	13.1	29.7	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	19	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3041	RUBBER, PLASTICS HOSE AND BELTING										
	ENTIRE INDUSTRY	90	31.9	316.3	22.6	45.4	200.1	618.7	405.5	1 020.1	31.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	74	22.4	216.6	17.2	34.8	152.2	494.4	280.2	771.5	22.0
30411	RUBBER AND PLASTICS BELTS AND BELTING, FLAT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	29	10.1	108.5	5.7	10.8	51.3	150.5	133.4	281.6	8.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	16	.8	7.1	.6	1.2	4.3	14.5	9.1	23.7	.6
30412	RUBBER, PLASTICS BELTS AND BELTING, NOT FLAT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	14	9.9	93.7	7.8	15.4	70.2	242.0	104.8	346.9	9.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	7	2.1	18.2	1.7	3.2	14.1	43.5	19.3	62.1	1.2
30413	RUBBER AND PLASTICS HOSE, HORIZ. REINFORCED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	12	3.6	34.1	2.8	5.9	25.4	78.2	51.4	128.5	6.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	5	.4	3.5	.3	.8	2.6	9.4	6.7	15.8	.1
30414	RUBBER, PLASTICS HOSE, CONT. MOLDED NONHYDRAUL. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	4	1.9	17.7	1.5	3.2	13.6	34.1	25.8	60.5	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
30415	RUBBER AND PLASTICS GARDEN HOSE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	7	.5	4.5	.4	.9	3.1	13.6	11.6	24.0	1.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
30416	ALL OTHER RUBBER AND PLASTICS HOSE, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	24	5.9	50.5	4.4	9.2	36.6	100.4	78.5	178.6	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	15	2.2	15.7	1.8	3.7	11.8	31.7	28.3	59.6	1.4
3069	FABRICATED RUBBER PRODUCTS, NEC										
	ENTIRE INDUSTRY	1 116	99.0	808.8	77.4	153.7	559.7	1 573.1	1 273.0	2 830.9	88.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	953	60.9	482.7	48.2	96.0	335.9	944.0	773.5	1 709.8	60.3
30693	SPONGE AND FOAM RUBBER GOODS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	58	9.8	98.4	7.7	15.7	70.5	189.6	159.1	349.8	12.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	48	4.5	36.8	3.6	7.5	27.2	80.8	89.8	171.3	7.6
30694	RUBBER FLOOR AND WALL COVERING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	22	3.9	32.5	2.8	5.4	20.0	58.9	50.6	108.1	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	13	.9	7.6	.7	1.5	5.4	16.2	14.7	30.6	.6
30695	MECHANICAL RUBBER GOODS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	332	51.6	434.6	40.1	80.6	301.8	788.0	597.7	1 329.6	41.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	262	33.9	283.0	26.7	53.8	196.7	513.7	357.4	866.5	31.6
30696	RUBBER HEELS AND SOLES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	26	5.3	38.4	4.4	8.7	29.0	68.5	74.3	141.6	3.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	23	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
30697	DRUGGIST AND MEDICAL SUNDRIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	25	6.4	43.3	5.1	9.6	30.1	118.3	79.0	191.7	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	17	2.6	16.6	2.1	4.2	11.7	30.6	14.7	44.8	1.7
30698	OTHER RUBBER GOODS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	152	15.4	113.7	12.1	24.0	76.4	257.8	290.3	546.3	12.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	116	8.9	64.5	7.0	13.7	42.5	160.5	176.5	334.7	7.9

See footnote at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3079	MISCELLANEOUS PLASTICS PRODUCTS										
	ENTIRE INDUSTRY	7 698	347.0	2 642.6	276.5	548.9	1 793.5	6 008.0	4 790.9	10 703.6	654.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	6 904	270.3	2 011.8	216.8	428.8	1 374.4	4 686.4	3 724.9	8 334.5	531.4
30791	UNSUPPORTED PLASTICS FILM, SHEETS, RODS, TUBES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	522	45.7	402.7	34.4	71.6	261.9	974.0	902.9	1 862.3	111.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	443	31.9	270.6	24.5	50.8	179.3	654.4	643.7	1 277.8	84.8
30792	FOAMED PLASTICS PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	251	25.6	195.5	20.6	40.8	138.6	419.1	452.5	870.9	44.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	225	19.7	138.7	15.8	30.9	95.0	311.1	345.8	653.4	37.9
30793	LAMINATED SHEETS, RODS, AND TUBES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	111	13.7	127.7	9.9	21.5	79.9	296.4	266.6	558.4	19.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	85	10.2	97.3	7.4	16.4	61.2	238.8	214.5	449.2	16.6
30794	PACKAGING AND SHIPPING CONTAINERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	486	45.3	334.1	37.2	74.0	240.3	752.6	498.8	1 246.0	74.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	420	38.3	282.4	31.4	62.6	203.0	638.3	415.9	1 052.0	63.9
30795	INDUSTRIAL PLASTICS PROD. EXC. BELTING, PACKING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	914	76.6	566.4	63.4	125.7	399.6	1 074.8	798.1	1 851.0	100.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	705	57.1	415.6	47.6	94.3	297.4	802.0	601.8	1 388.5	79.3
30796	CONSTRUCTION PLASTICS PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	380	28.4	224.6	21.7	42.5	143.5	606.9	513.7	1 094.9	76.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	318	23.5	184.4	18.1	35.4	119.5	516.5	436.8	931.4	67.0
30797	PLASTICS DINNERWARE, TABLEWARE, AND KITCHENWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	94	9.5	60.0	7.8	15.4	42.4	228.3	102.3	328.2	22.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	71	7.6	48.4	6.3	12.3	34.1	202.4	81.0	281.2	19.8
30798	REGENERATED CELLULOSIC PRODUCTS, EXC. RAYON (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	45	10.1	94.4	7.3	14.5	63.7	227.5	159.7	388.0	15.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	37	8.3	75.2	5.9	12.0	51.2	199.5	127.4	326.0	14.2
30799	CUSTOM COMPOUNDED PURCHASED RESINS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	95	5.3	43.7	3.8	7.9	24.4	105.4	145.5	249.1	14.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	81	3.8	31.6	2.8	5.9	18.6	78.4	103.7	180.5	10.2

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
						Col. B Col. B & C				Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3011-	Tires and inner tubes.....1972..	5,747.1	4,870.0	174.3	702.8	97	4,898.4	4,870.0	28.4	99
	.....1967..	3,733.9	3,103.4	175.2	455.4	95	3,133.5	3,103.4	30.1	99
3021-	Rubber and plastics footwear.....1972..	600.0	490.9	29.0	80.1	94	493.9	490.9	3.0	99
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3031-	Reclaimed rubber.....1972..	29.7	28.6	1.1	-	96	52.0	28.6	23.4	55
	.....1967..	43.8	35.4	7.2	1.2	83	47.3	35.4	11.9	75
3041-	Rubber and plastics hose and belting.....1972..	1,020.1	788.7	133.4	98.0	85	886.0	788.7	97.3	89
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3069-	Fabricated rubber products, n.e.c.....1972..	2,830.9	2,260.8	436.8	133.3	84	2,538.7	2,260.8	277.9	89
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3079-	Miscellaneous plastics products.....1972..	10,703.6	9,732.4	616.1	355.1	94	11,094.5	9,732.4	1,362.1	88
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

- Represents zero. (NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Tires and inner tubes (SIC 3011)	Rubber and plastics footwear (SIC 3021)	Reclaimed rubber (SIC 3031)	Rubber and plastics hose and belting (SIC 3041)	Fabricated rubber products, n.e.c. (SIC 3069)	Miscellaneous plastics products (SIC 3079)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	5,747.1	600.0	29.7	1,020.1	2,830.9	10,703.6	(X)
3011-	Tires and inner tubes.....	4,898.4	4,870.0	-	-	-	20.1	(2-5)	(5-10)
30111	Passenger car and motorcycle pneumatic tires (casings).....	2,860.0	2,860.0	-	-	-	-	-	-
30112	Truck and bus, including off the highway, pneumatic tires.....	1,282.1	1,282.1	-	-	-	-	-	-
30113	Other pneumatic tires and solid tires.....	381.1	365.8	-	-	-	12.1	-	3.2
30114	All inner tubes.....	146.7	(100-200)	-	-	-	(under 2)	-	-
30115	Tread rubber, tire sundries, and repair materials.....	217.0	204.9	-	-	-	7.1	(2-5)	(2-5)
30110	Tires and inner tubes, n.s.k.....	11.5	(over 2)	-	-	-	(under 2)	-	(under 2)
3021-	Rubber and plastics footwear.....	493.9	-	490.9	-	-	(under 2)	(over 2)	(under 2)
30211	Rubber and plastics protective footwear.....	80.1	-	77.5	-	-	(under 2)	(over 2)	(under 2)
30212	Rubber and plastics shoes, slippers, and other footwear, n.e.c.....	406.2	-	405.8	-	-	(under 2)	(under 2)	-
30210	Rubber and plastics footwear, n.s.k.....	7.6	-	7.6	-	-	-	-	-
3031-	Reclaimed rubber.....	52.0	(5-10)	-	28.6	-	(2-5)	(under 2)	(over 2)
3041-	Rubber and plastics hose and belting.....	886.0	42.5	-	-	788.7	14.6	31.5	8.7
30411	Rubber and plastics belts and belting, flat.....	157.6	(over 2)	-	-	123.9	1.5	1.0	(2-5)
30412	Rubber and plastics belts and belting, other than flat.....	204.0	-	-	-	202.2	(under 2)	-	(under 2)
30413	Rubber and plastics hose, horizontal reinforced.....	143.5	(under 2)	-	-	125.2	(under 2)	(over 2)	(5-10)
30414	Rubber and plastics hose continuous molded nonhydraulic, except garden.....	84.8	-	-	-	84.8	-	-	-
30415-	Rubber and plastics garden hose.....	56.3	-	-	-	41.4	-	(10-20)	(under 2)
30416-	All other rubber and plastics hose, n.e.c.....	237.0	(10-20)	-	-	208.4	10.4	5.2	(under 2)
30410-	Rubber and plastics hose and belting, n.s.k.....	2.8	-	-	-	2.8	-	-	-
3069-	Fabricated rubber products, n.e.c.....	2,538.7	37.9	14.7	-	44.9	2,260.8	36.0	144.4
30693	Sponge and foam rubber goods.....	350.1	(under 2)	(over 2)	-	(under 2)	297.6	(5-10)	36.2
30694	Rubber floor and wall covering.....	98.4	(2-5)	-	-	13.1	79.4	(over 2)	(under 2)
30695	Mechanical rubber goods, n.e.c.....	1,144.4	19.2	(under 2)	-	30.6	1,057.6	3.0	(20-50)
30696	Rubber heels and soles.....	154.5	-	(under 2)	-	-	145.7	(over 2)	1.5
30697	Druggist and medical sundries.....	116.8	-	-	-	(under 2)	95.5	(under 2)	20.2
30698	Other rubber goods, n.e.c.....	533.8	15.7	(2-5)	-	-	452.1	(10-20)	48.0
30690	Fabricated rubber products, n.e.c., n.s.k.....	140.7	-	(under 2)	-	-	132.9	(under 2)	6.6
3079-	Miscellaneous plastics products.....	11,094.5	(2-5)	(under 2)	(under 2)	5.5	140.9	9,732.4	1,209.2
30791	Unsupported plastics film, sheets, sheeting rods, tubes, and other stock shapes.....	2,064.8	(2-5)	-	-	-	8.8	1,657.4	394.0
30792	Foamed plastics products.....	878.3	-	-	-	-	29.2	771.7	77.4
30793	Laminated sheets, rods, and tubes.....	568.1	-	-	-	-	.9	537.4	29.8
30794	Packaging and shipping containers, plastics.....	1,271.4	-	-	-	-	-	1,181.4	90.0
30795	Industrial plastics products.....	1,819.5	-	-	-	(2-5)	63.9	1,632.8	118.7
30796	Construction plastics products.....	1,114.8	-	-	-	(under 2)	(5-10)	1,014.5	(50-100)
30797	Plastics dinnerware, tableware, and kitchenware.....	377.3	-	(under 2)	-	-	-	353.3	23.9
30798	Regenerated cellulosic products, except rayon.....	429.3	-	-	-	-	-	345.8	83.5
30799	Custom compounded purchased resins.....	227.2	-	-	-	-	(2-5)	218.4	(2-5)
30790	Miscellaneous plastics products, n.s.k.....	2,343.8	(under 2)	(under 2)	(under 2)	.9	26.6	2,019.7	294.8
	Other product shipments by 4-digit product group:								
2013-	Sausages and other prepared meats.....	(X)	-	-	-	-	-	(over 2)	(X)
2211-	Weaving mills, cotton.....	(X)	-	-	-	(5-10)	-	-	(X)
2221-	Weaving mills, manmade fiber and silk.....	(X)	-	-	-	(over 2)	-	-	(X)
2241-	Narrow fabric mills.....	(X)	-	-	-	(2-5)	-	-	(X)
2293-	Paddings and upholstery filling.....	(X)	-	-	-	-	-	2.1	(X)
2295-	Coated fabrics, not rubberized.....	(X)	-	-	-	(2-5)	28.5	22.9	(X)
2342-	Crassieres and allied garments.....	(X)	-	-	-	-	(over 2)	-	(X)
2381-	Fabric dress and work gloves.....	(X)	-	-	-	-	(over 2)	-	(X)
2392-	Housefurnishings, n.e.c.....	(X)	-	-	-	-	-	4.1	(X)
2393-	Textile bags.....	(X)	-	-	-	-	-	(over 2)	(X)
2399-	Fabricated textile products, n.e.c.....	(X)	-	-	-	-	-	4.4	(X)
2499-	Wood products, n.e.c.....	(X)	-	-	-	-	-	4.7	(X)
2511-	Wood household furniture.....	(X)	-	-	-	-	-	(over 2)	(X)
2514-	Metal household furniture.....	(X)	-	-	-	-	-	(2-5)	(X)
2519-	Household furniture, n.e.c.....	(X)	-	-	-	-	-	32.1	(X)
2621-	Papermills, except building paper.....	(X)	-	-	-	-	-	(2-5)	(X)
2641-	Paper coating and glazing.....	(X)	-	-	-	-	-	6.8	(X)
2643-	Bags, except textile bags.....	(X)	-	-	-	-	-	11.2	(X)
2645-	Die-cut paper and board.....	(X)	-	-	-	-	-	(2-5)	(X)
2646-	Pressed and molded pulp goods.....	(X)	-	-	-	-	-	(2-5)	(X)
2647-	Sanitary paper products.....	(X)	-	-	-	-	(over 2)	-	(X)
2649-	Converted paper products, n.e.c.....	(X)	-	-	-	-	(over 2)	5.0	(X)
2654	Sanitary food containers.....	(X)	-	-	-	-	-	8.7	(X)
2655	Fiber cans, drums and similar products.....	(X)	-	-	-	-	-	(over 2)	(X)
2752-	Commercial printing, lithographic.....	(X)	-	-	-	-	-	(2-5)	(X)
2782-	Blankbooks and looseleaf binders.....	(X)	-	-	-	-	-	6.3	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Tires and inner tubes (SIC 3011)	Rubber and plastics footwear (SIC 3021)	Reclaimed rubber (SIC 3031)	Rubber and plastics hose and belting (SIC 3041)	Fabricated rubber products, n.e.c. (SIC 3069)	Miscellaneous plastics products (SIC 3079)	Other industries
	Shipments and miscellaneous receipts--Continued								
	Other product shipments by 4-digit product group:								
2821-	Plastics materials and resins.....	(X)	(over 2)	-	-	-	(over 2)	43.4	(X)
2822-	Synthetic rubber.....	(X)	(over 2)	-	-	-	5.6	(under 2)	(X)
2824-	Organic fibers, noncellulosic.....	(X)	-	-	-	-	(over 2)	(10-20)	(X)
2843-	Surface active agents.....	(X)	-	-	-	-	(over 2)	-	(X)
2851-	Paints and allied products.....	(X)	-	-	-	-	-	7.0	(X)
2869-	Industrial organic chemicals, n.e.c.....	(X)	(over 2)	-	-	-	-	(5-10)	(X)
2891-	Adhesives and sealants.....	(X)	-	-	-	(over 2)	5.1	11.5	(X)
2899-	Chemical preparations, n.e.c.....	(X)	-	-	-	-	(over 2)	(20-50)	(X)
2952-	Asphalt felts and coatings.....	(X)	-	-	-	-	-	(over 2)	(X)
3131-	Boot and shoe cut stock and findings.....	(X)	-	-	-	-	7.6	(under 2)	(X)
3142-	House slippers.....	(X)	-	(5-10)	-	-	-	-	(X)
3144-	Women's footwear, except athletic.....	(X)	-	(over 2)	-	-	-	-	(X)
3231-	Products of purchased glass.....	(X)	-	-	-	-	-	2.6	(X)
3292-	Asbestos products.....	(X)	-	-	-	-	-	13.0	(X)
3293-	Gaskets, packing and sealing devices.....	(X)	(2-5)	-	-	9.2	63.2	7.4	(X)
3354-	Aluminum extruded products.....	(X)	-	-	-	-	-	(over 2)	(X)
3357-	Nonferrous wiredrawing and insulating.....	(X)	-	-	-	-	-	(over 2)	(X)
3411-	Metal cans.....	(X)	-	-	-	-	-	(2-5)	(X)
3429-	Hardware, n.e.c.....	(X)	-	-	-	-	-	2.6	(X)
3431-	Metal sanitary ware.....	(X)	-	-	-	-	-	(over 2)	(X)
3442-	Metal doors, sash, and trim.....	(X)	-	-	-	-	-	(2-5)	(X)
3466-	Crowns and closures.....	(X)	-	-	-	-	-	(10-20)	(X)
3469-	Metal stampings, n.e.c.....	(X)	-	-	-	-	4.5	(under 2)	(X)
3479-	Metal coating and allied services.....	(X)	-	-	-	-	-	(5-10)	(X)
3497-	Metal foil and leaf.....	(X)	-	-	-	-	-	(10-20)	(X)
3499-	Fabricated metal products, n.e.c.....	(X)	-	-	-	-	-	9.6	(X)
3531-	Construction machinery.....	(X)	(over 2)	-	-	-	-	-	(X)
3544-	Special dies, tools, jigs, and fixtures.....	(X)	-	-	-	-	3.8	73.1	(X)
3552-	Textile machinery.....	(X)	-	-	-	(over 2)	-	-	(X)
3555-	Printing trades machinery.....	(X)	(over 2)	-	-	(over 2)	-	-	(X)
3559-	Special industry machinery, n.e.c.....	(X)	-	-	-	-	(over 2)	3.1	(X)
3652-	Phonograph records and prerecorded tapes.....	(X)	-	-	-	-	-	(over 2)	(X)
3694-	Engine electrical equipment.....	(X)	-	-	-	-	-	(over 2)	(X)
3714-	Motor vehicle parts and accessories.....	(X)	(over 2)	-	-	-	(over 2)	(10-20)	(X)
3728-	Aircraft equipment, n.e.c.....	(X)	-	-	-	(over 2)	-	5.1	(X)
3769-	Space vehicle equipment, n.e.c.....	(X)	-	-	-	(over 2)	-	(under 2)	(X)
3795-	Tanks and tank components.....	(X)	-	-	-	-	3.8	-	(X)
3842-	Surgical appliances and supplies.....	(X)	-	-	-	-	-	5.7	(X)
3944-	Games, toys, and children's vehicles.....	(X)	-	-	-	-	(2-5)	25.5	(X)
3949-	Sporting and athletic goods, n.e.c.....	(X)	-	-	-	(over 2)	7.5	5.1	(X)
3993-	Signs and advertising displays.....	(X)	-	-	-	-	-	5.8	(X)
3999-	Manufacturing industries, n.e.c.....	(X)	-	(over 2)	-	-	-	(under 2)	(X)
	Miscellaneous receipts.....	(X)	702.8	80.1	-	98.0	133.3	355.1	(X)
	Resales.....	(X)	696.7	79.2	-	94.4	113.7	254.0	(X)
	Contract work.....	(X)	(under 2)	(under 2)	-	(over 2)	13.5	79.8	(X)
	Other miscellaneous receipts.....	(X)	(over 2)	(under 2)	-	(under 2)	6.1	21.3	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries				
	Listing of other industries with over \$2 million shipments of primary products			Listing of other industries with over \$2 million shipments of primary products--Continued					
3011-	3429 Hardware, n.e.c.....	(over 2)	3069-	3292 Asbestos products.....	(over 2)				
	3449 Miscellaneous metalwork.....	(over 2)		3293 Gaskets, packing and sealing devices.....	15.7				
				3555 Printing trades machinery.....	4.1				
3031-	2869 Industrial organic chemicals, n.e.c.....	(over 2)		3714 Motor vehicle parts and accessories.....	6.9				
				3841 Surgical and medical instruments.....	7.5				
3041-	3561 Pumps and pumping equipment.....	(over 2)		3842 Surgical appliances and supplies.....	(over 2)				
				3949 Sporting and athletic goods, n.e.c.....	14.6				
3069-	2023 Condensed and evaporated milk.....	(over 2)		3952 Lead pencils and art goods.....	5.0				
	2281 Yarn mills, except wool.....	(over 2)							
	2295 Coated fabrics, not rubberized.....	(over 2)	3079-	2011 Meatpacking plants.....	(over 2)				
	2296 Tire cord and fabric.....	(over 2)		2221 Weaving mills, manmade fiber and silk.....	(2-5)				
	2297 Nonwoven fabrics.....	(over 2)		2282 Throwing and winding mills.....	(over 2)				
	2392 Housefurnishings, n.e.c.....	3.6		2295 Coated fabrics, not rubberized.....	35.2				
	2641 Paper coating and glazing.....	13.5		2298 Cordage and twine.....	2.6				
	2834 Pharmaceutical preparations.....	(over 2)		2392 Housefurnishings, n.e.c.....	7.0				
	2869 Industrial organic chemicals, n.e.c.....	(over 2)		2396 Automotive and apparel trimmings.....	(over 2)				

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 5A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of primary products--Continued			Listing of other industries with over \$2 million shipments of primary products--Continued	
3079-	2431 Millwork.....	5.6	3079-	3444 Sheet metalwork.....	3.1
	2499 Wood products, n.e.c.....	10.7		3452 Bolts, nuts, rivets and washers.....	(5-10)
	2514 Metal household furniture.....	2.6		3466 Crowns and closures.....	6.3
	2519 Household furniture, n.e.c.....	19.9		3469 Metal stampings, n.e.c.....	8.3
	2522 Metal office furniture.....	(2-5)		3479 Metal coating and allied services.....	8.8
	2541 Wood partitions and fixtures.....	3.8		3483 Ammunition, except for small arms, n.e.c.....	(2-5)
	2591 Drapery hardware and blinds and shades.....	10.8		3496 Miscellaneous fabricated wire products.....	3.1
				3497 Metal foil and leaf.....	11.6
	2631 Paperboard mills.....	(2-5)		3498 Fabricated pipe and fittings.....	(10-20)
	2641 Paper coating and glazing.....	12.9		3499 Fabricated metal products, n.e.c.....	6.1
	2643 Bags, except textile bags.....	84.0			
	2649 Converted paper products, n.e.c.....	8.8		3519 Internal combustion engines, n.e.c.....	(over 2)
	2651 Folding paperboard boxes.....	4.1		3541 Machine tools, metal-cutting types.....	(5-10)
	2654 Sanitary food containers.....	21.7		3544 Special dies, tools, jigs, and fixtures.....	5.2
	2655 Fiber cans, drums, and similar products.....	2.6		3559 Special industry machinery, n.e.c.....	2.3
				3561 Pumps and pumping equipment.....	(2-5)
	2821 Plastics materials and resins.....	282.8		3565 Industrial patterns.....	(2-5)
	2824 Organic fibers, noncellulosic.....	(50-100)		3585 Refrigeration and heating equipment.....	(over 2)
	2834 Pharmaceutical preparations.....	(2-5)			
	2842 Polishes and sanitation goods.....	6.3		3629 Electrical industrial apparatus, n.e.c.....	(2-5)
	2844 Toilet preparations.....	(5-10)		3634 Electric housewares and fans.....	(2-5)
	2851 Paints and allied products.....	5.5		3635 Household vacuum cleaners.....	(2-5)
	2869 Industrial organic chemicals, n.e.c.....	20.8		3643 Current-carrying wiring devices.....	6.5
	2891 Adhesives and sealants.....	2.1		3646 Commercial lighting fixtures.....	(2-5)
	2899 Chemical preparations, n.e.c.....	(20-50)		3652 Phonograph records and prerecorded tapes.....	7.9
				3678 Electric connectors.....	(5-10)
	2911 Petroleum refining.....	(10-20)			
	3161 Luggage.....	(2-5)		3728 Aircraft equipment, n.e.c.....	(20-50)
	3229 Pressed and blown glass, n.e.c.....	(2-5)		3824 Fluid meters and counting devices.....	(2-5)
	3231 Products of purchased glass.....	4.5		3841 Surgical and medical instruments.....	(over 2)
	3259 Structural clay products, n.e.c.....	(2-5)		3842 Surgical appliances and supplies.....	(5-10)
	3292 Asbestos products.....	(10-20)		3851 Ophthalmic goods.....	(10-20)
	3293 Gaskets, packing and sealing devices.....	8.5		3861 Photographic equipment and supplies.....	(10-20)
	3351 Copper rolling and drawing.....	(2-5)		3914 Silverware and plated ware.....	(5-10)
	3357 Nonferrous wiredrawing and insulating.....	2.2		3944 Games, toys, and children's vehicles.....	19.0
	3369 Nonferrous foundries, n.e.c.....	17.4		3949 Sporting and athletic goods, n.e.c.....	36.1
	3411 Metal cans.....	2.3		3961 Costume jewelry.....	(2-5)
	3429 Hardware, n.e.c.....	11.5		3991 Brooms and brushes.....	16.1
	3441 Fabricated structural metal.....	(2-5)		3993 Signs and advertising displays.....	2.3
	3442 Metal doors, sash and trim.....	5.6		3999 Manufacturing industries, n.e.c.....	(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3011- --	TIRES AND INNER TUBES, TOTAL.....		(X)	(X)	4,898.4	(X)	(X)	3,133.5
30111 11	Passenger car and motorcycle pneumatic tires (casings).....	Mil.tires.	197.2	198.5	2,860.0	143.7	146.2	1,713.6
30112 11	Truck and bus, including off-the-highway, pneumatic tires.....	..do....	35.9	35.7	1,282.1	20.1	19.9	829.4
30113 --	Other Pneumatic Tires and Solid Tires.....		(X)	(X)	381.1	(X)	(X)	274.5
30113 11	Aircraft.....	Mil.tires.	.6	.6	37.4	.8	.9	51.8
30113 12	Mobile home.....	..do....	2.5	2.3	29.0	(NA)	(NA)	(NA)
30113 14	Tractor and implement (farm and industrial).....	..do....	5.6	5.8	182.6			
30113 16	Industrial and utility, including garden.....	..do....				11.2	11.2	164.9
30113 17	Bicycle casings and single tube tires.....	..do....	23.5	22.2	71.5	10.2	10.3	12.8
	Solid tires:							
30113 33	Industrial and highway.....	..do....	1.5	1.3	32.4	1.0	1.2	20.9
30113 35	Bogie, idler and support rollers.....	Mil.units.	(S)	(S)	(¹)	.2	.2	2.6
	Other solid and semipneumatic:							
30113 41	2.00 in or larger, except hand lawn mower, baby carriage, tricycle, juvenile, etc.....	Mil.tires.	(S)	(S)	6.4	7.0	7.1	5.7
30113 51	Less than 2.00 in, including hand lawn mower, baby carriage, tricycle, juvenile, etc.....	..do....	50.0	49.5	14.7	59.2	58.2	15.8
30113 00	Other pneumatic tires and solid tires, n.s.k.....		(NA)	(NA)	17.1	(NA)	(NA)	(NA)
30114 --	All Inner Tubes.....		(X)	(X)	146.7	(X)	(X)	112.9
30114 21	Passenger car and motorcycle.....	Mil.tubes.	27.9	28.0	41.6	28.7	29.6	40.3
30114 23	Truck and bus, including off-the-highway.....	..do....	23.9	22.5	76.1	13.5	13.8	44.5
30114 24	Aircraft.....	..do....	(²)	(²)	(²)	.3	.3	2.1
30114 25	Tractor and implement (farm and industrial).....	..do....	2.5	2.5	13.6			
30114 26	Industrial and utility, including garden.....	..do....				7.5	7.8	18.9
30114 27	Bicycle.....	..do....	219.2	218.3	215.4	12.1	12.3	7.1
30114 00	All inner tubes, n.s.k.....		-	-	-	(NA)	(NA)	(NA)
30115 --	Tread Rubber, Tire Sundries, and Repair Materials.....		(X)	(X)	217.0	(X)	(X)	198.3
30115 11	Tread rubber (camelback), including slab rubber for use in automatic tread rubber extruding machines.....	Million lb.	569.3	562.6	154.3	565.2	563.4	150.0
30115 31	Tire flaps.....	Mil.units.	11.0	11.0	19.0	13.8	13.6	16.0
30115 39	Other tire sundries, repair materials and tiring.....	Million lb.				33.5	35.3	30.9
30115 00	Tread rubber, tire sundries, and repair materials, n.s.k.....		(S)	(S)	43.7	(X)	(X)	1.3
30110 00	Tires and inner tubes, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	7.2	(X)	(X)	2.6
30110 02	Tires and inner tubes, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	4.3	(X)	(X)	2.3
3021- --	RUBBER AND PLASTICS FOOTWEAR, TOTAL.....		(X)	(X)	493.9	(X)	(X)	458.0
30211 --	Rubber and Plastics Protective Footwear.....		(X)	(X)	80.1	(X)	(X)	75.3
	Protective footwear:							
30211 21	Boots.....	Mil.pairs.	5.0	5.0	29.6	4.8	5.0	21.6
30211 31	Lumberman and pacs.....	..do....	1.8	2.1	10.5	.9	.9	6.2
	Artics and gaiters:							
30211 43	Male.....	..do....	(S)	(S)	14.6			
30211 47	Female.....	..do....	(S)	(S)	14.0	12.5	13.5	39.1
30211 51	Light and heavy rubbers.....	..do....	(S)	(S)	8.0	4.9	4.8	8.4
30211 53	Protective footwear, unlined, single film.....		(X)	(X)	3.5	(NA)	(NA)	(NA)
30212 --	Rubber and Plastics Shoes, Slippers, and Other Footwear, N.E.C....		(X)	(X)	406.2	(NA)	(NA)	373.6
	Shoes and slippers with sole vulcanized or molded to fabric upper:							
	Hi-wall:							
30212 02	Male.....	Mil.pairs.	63.6	62.4	158.7			
30212 04	Female.....	..do....	18.5	18.4	32.7			
	Lo-wall:							
30212 06	Male.....	..do....	34.6	34.8	92.4			
30212 08	Female.....	..do....	36.1	36.1	74.6	(NA)	(NA)	373.6
30212 17	Slippers primarily intended for indoor household use.....							
30212 98	Other rubber and plastics footwear, including beach and shower slippers.....		(X)	(X)	47.8			
30210 00	Rubber and plastics footwear, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	4.1	(X)	(X)	8.9
30210 02	Rubber and plastics footwear, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	3.5	(X)	(X)	.2

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3031- --	RECLAIMED RUBBER, TOTAL.....		(X)	(X)	52.0	(X)	(X)	47.3
30310 11	Reclaimed rubber (any vulcanizable material except reclaimed residue or mud derived from processing or treatment of natural or synthetic (chemical) vulcanized scrap rubber).....	Million lb.	(³)	(S)	49.9	547.4	468.7	46.4
30310 00	Reclaimed rubber, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	2.1	(X)	(X)	.6
30310 02	Reclaimed rubber, n.s.k., for companies with less than 10 employees. (See note.).....					(X)	(X)	.3
3041- --	RUBBER AND PLASTICS HOSE AND BELTING, TOTAL.....		(X)	(X)	886.0	(X)	(X)	672.1
30411 --	Rubber and Plastics Belts and Belting, Flat.....		(X)	(X)	157.6	161.9	100.6	101.5
30411 11	Conveyor and elevator.....	Million lb.	107.6	104.5	98.0	92.5	91.2	88.2
30411 13	Transmission, flat.....	do.	15.6	14.8	24.7	9.4	9.4	13.3
30411 15	Other flat rubber and plastics belts and belting.....	do.	(S)	(S)	34.9	(NA)	(NA)	(NA)
30411 20	Plastics belting.....	do.				(NA)	(NA)	(NA)
30411 00	Rubber and plastics belting, n.s.k.....		(X)	(X)	-	(NA)	(NA)	(NA)
30412 --	Rubber and Plastics Belts and Belting, Other Than Flat.....		(X)	(X)	204.0	(X)	(X)	149.1
30412 25	Motor vehicles.....	Mil. units.	99.6	91.9	78.3	59.9	(NA)	41.6
30412 31	Industrial, except fractional.....	do.	25.8	25.2	61.5	(NA)	(NA)	41.9
30412 41	Agricultural, except fractional.....	do.	6.8	7.0	17.7	(NA)	(NA)	12.9
30412 51	Fractional horsepower.....	do.	27.2	26.1	27.1	(NA)	(NA)	19.7
30412 89	All other rubber and plastics belts and belting, other than flat.....	do.	(S)	13.8	15.1	(NA)	(NA)	26.3
30412 00	Rubber and plastic belts and belting, other than flat, n.s.k.....		(X)	(X)	4.3	(X)	(X)	6.7
30413 --	Rubber and Plastics Hose, Horizontal Reinforced.....	Million lb.	(S)	(S)	143.5	103.8	101.9	114.6
30413 12	Textile:							
30413 14	Hydraulic.....	do.	16.4	16.2	24.6	19.8	19.6	28.4
	Other.....	do.	27.6	26.4	28.2	19.3	18.7	13.0
30413 16	Wire:							
30413 18	Hydraulic.....	do.	55.5	54.6	51.0	53.3	52.1	58.7
30413 00	Other.....	do.	(S)	(S)	39.7	11.4	11.5	14.5
	Rubber and plastics hose, horizontal reinforced, n.s.k.....		-	-	-	(NA)	(NA)	(NA)
30414 --	Rubber and Plastics Hose, Continuous Molded Nonhydraulic, Except Garden.....		110.5	109.6	84.8	(X)	(X)	52.3
30414 51	Textile.....	Million lb.	98.9	97.2	65.0	79.0	79.3	50.3
30414 53	Wire.....	do.	11.6	12.4	19.8	(S)	(S)	2.0
30414 00	Rubber and plastics hose, continuous molded nonhydraulic, except garden.....		-	-	-	(NA)	(NA)	(NA)
30415 --	Rubber and Plastics Garden Hose.....		(X)	(X)	56.3	(X)	(X)	41.1
30415 61	Garden hose, including perforated sprinkler, plastics.....		(X)	(X)	32.7	(X)	(X)	27.7
30415 63	Garden hose, rubber or plastics.....	Million lb.	69.8	69.6	23.6	33.8	33.6	13.4
30415 00	Rubber and plastics garden hose, n.s.k.....		(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30416 --	All Other Rubber and Plastics Hose, N.E.C.....		(X)	(X)	237.0	(X)	(X)	213.4
	Rubber and plastic hose:							
	Wrapped reinforced:							
	Handbuilt:							
30416 33	Wire.....	Million lb.	17.2	17.7	26.9	14.3	14.5	20.7
30416 35	Nonwire.....	do.	(S)	(S)	11.2	9.3	9.2	11.3
30416 39	Machine.....	do.	20.6	20.8	19.9	18.0	18.0	21.1
	Circular woven jacket:							
30416 42	Single jacket.....	do.	42.3	42.2	33.1	25.3	20.3	19.6
30416 44	Double jacket.....	do.	44.4	44.1	28.4	12.0	12.1	12.8
30416 65	Chernak loom.....	do.	(⁴)	(⁴)	(⁴)	3.5	3.5	4.5
30416 67	Braided-helical wire.....	do.	17.2	16.8	18.7	7.1	7.2	7.5
30416 73	Types of construction, n.e.c., including railroad specification.....	do.	63.4	64.0	58.5	(S)	(S)	79.3
30416 81	Hose, except garden.....		(X)	(X)	31.6	(X)	(X)	19.8
30416 00	All other rubber and plastics hose, n.e.c., n.s.k.....		(X)	(X)	48.7	(NA)	(NA)	16.8
30410 00	Rubber and plastics hose and belting, n.s.k., for companies with 10 employees or more. (See note.).....		(NA)	(NA)	2.8	(NA)	(NA)	(NA)
30410 02	Rubber and plastics hose and belting, n.s.k., for companies with less than 10 employees. (See note.).....		(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3069- --	FABRICATED RUBBER PRODUCTS, N.E.C., TOTAL.....		(X)	(X)	2,538.7	(X)	(X)	2,090.4
30693 --	Sponge and Foam Rubber Goods.....		(X)	(X)	350.1	(X)	(X)	276.7
	Latex foam:							
30693 11	Automotive seating.....	Million lb.	(S)	(S)	3.4	32.6	33.0	19.3
30693 15	Automotive interior padded trim and insulation.....	..do....	(D)	(D)	(D)	(NA)	(NA)	(NA)
	Upholstery:							
30693 21	Fully molded cushions.....	..do....	28.4	30.1	22.3	33.0	32.8	16.1
30693 29	Other, including slab stock, cored building stock, etc.....	..do....				36.8	36.9	23.8
	Mattress cores, except polyurethane:							
30693 31	Pounds.....	..do....	(D)	-	-	23.1	-	-
30693 35	Units.....	Mil.units.	(D)	(D)	(D)	.6	.6	12.5
	Pillows:							
30693 41	Pounds.....	Million lb.	(NA)	-	-	(NA)	(NA)	(NA)
30693 45	Units.....	Mil.units.	(D)	(D)	(D)	2.6	2.9	5.3
30693 51	Carpet and rug cushions.....	Mil.sq.yd.	87.3	87.3	49.6	34.4	33.6	24.2
30693 55	Clothing insulation and padding.....	Million lb.	(S)	(S)	14.2	(NA)	(NA)	(NA)
30693 69	Other latex foam products, including hospital padding and topper pads.....	..do....				(S)	(S)	59.3
	Chemically blown sponge:							
	Open cell:							
30693 73	Carpet and rug cushions.....	Mil.sq.yd.	94.8	95.2	60.1	91.8	93.1	67.5
30693 74	Automotive.....	Million lb.	24.5	22.1	22.5	(S)	(S)	15.0
30693 75	Other.....	..do....	26.8	28.4	11.8	19.4	19.0	7.9
	Closed cell:							
30693 76	Carpet and rug cushions.....	Mil.sq.yd.	(S)	(S)	22.7	(NA)	(NA)	(NA)
30693 77	Automotive.....	Million lb.	36.5	36.4	42.7	11.1	10.5	11.2
30693 78	Other.....	..do....	(S)	(S)	9.5	(S)	(S)	13.5
30693 00	Sponge and foam rubber goods, n.s.k.....		(X)	(X)	10.3	(X)	(X)	1.3
30694 --	Rubber Floor and Wall Covering.....		(X)	(X)	98.4	(X)	(X)	70.7
	Mats, mattings, and stair treads:							
30694 21	Rolls.....	Mil.sq.yd.	11.5	10.9	14.0	(S)	(S)	17.9
	Individual mats:							
30694 23	Automotive.....	..do....	(S)	(S)	37.3	(S)	(S)	28.8
30694 25	All other, including stair treads.....	..do....	(S)	(S)	22.1	(S)	(S)	7.9
	Other flooring:							
30694 27	Sheet goods.....	..do....	(S)	(S)	10.1	(S)	(S)	16.1
30694 28	Tile.....	..do....	4.7	4.7	2.9			
30694 29	Wall coverings, including cove base, wainscoting, etc.....	..do....	(S)	(S)	7.2			
30694 00	Rubber floor and wall covering, n.s.k.....		(X)	(X)	4.8			
30695 --	Mechanical Rubber Goods, N.E.C.....		(X)	(X)	1,144.4	(X)	(X)	960.2
	Hard rubber mechanical goods:							
	Battery jars, boxes, and parts:							
30695 11	Jars and boxes.....	Mil.units.	(S)	(S)	54.2	(⁵)	(⁵)	(⁵)
30695 15	Parts.....	..do....	(X)	(X)	21.5	(X)	(X)	40.0
30695 18	Other.....	..do....	(X)	(X)	23.0	(X)	(X)	29.9
	Other rubber mechanical goods:							
	Molded:							
30695 21	Automotive.....	Million lb.	(S)	(S)	311.4	(S)	(S)	165.2
30695 23	Adhered to metal, except automotive.....	..do....	(S)	(S)	89.3	(S)	(S)	59.8
30695 25	Transportation, other than automotive.....	..do....	(S)	(S)	23.1	(S)	(S)	12.9
30695 29	Other molded.....	..do....	(S)	(S)	206.6	(S)	(S)	146.4
	Extrusion and lathe cut, except tubing:							
	Extrusions only:							
30695 31	Automotive.....	..do....	75.3	72.6	36.9	63.6	63.1	32.5
30695 32	Other.....	..do....	59.8	59.8	48.2	36.5	36.8	24.8
	Lathe cut:							
30695 34	Automotive.....	..do....	(S)	(S)	8.9	(S)	(S)	6.6
30695 36	Other.....	..do....	(S)	(S)	17.9	13.9	12.9	11.5
30695 51	Pressure sensitive tape, including friction.....	..do....	(S)	(S)	16.4	29.9	28.4	19.0
30695 71	Rolls, covered, including all industry rolls except ink rollers, printers' rolls, and platens.....		(X)	(X)	39.4	(X)	(X)	32.8
30695 75	Sheet rubber.....		(X)	(X)	20.2	(X)	(X)	(⁵)
30695 81	Tank blocks, treads, and band tracks.....		(X)	(X)	30.1	(X)	(X)	76.9
30695 83	Fuel cells.....		(X)	(X)	18.4	(X)	(X)	21.5
30695 85	Boats, pontoons, and life rafts.....		(X)	(X)	7.5	(X)	(X)	15.0
30695 87	Tubing, except medical, surgical, and reinforced.....	Million lb.	55.8	57.2	34.2	35.4	34.1	18.7
30695 98	Other.....		(X)	(X)	⁶ 48.9	(X)	(X)	^{5, 6} 153.0
30695 00	Mechanical rubber goods, n.e.c., n.s.k.....		(X)	(X)	88.3	(X)	(X)	93.7

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3069- --	FABRICATED RUBBER PRODUCTS, N.E.C.—Continued							
30696 --	Rubber Heels and Soles.....		(X)	(X)	154.5	(X)	(X)	126.1
	Shoe products, rubber, elastomer resin:							
30696 11	Heels.....	Mil.pairs.	(S)	(S)	24.7	127.1	129.9	21.9
30696 31	Soles.....	...do....	(S)	(S)	38.7	130.4	131.8	50.1
30696 51	Soling slabs and top lift sheets.....	Mil.sq.ft.	(S)	(S)	58.2	120.0	121.2	54.0
30696 61	Rubber sole and heel combinations.....	Mil.pairs.	(S)	(S)	16.6	(NA)	(NA)	(NA)
30696 00	Shoe products, rubber, elastomer, resin, n.s.k.....		(X)	(X)	16.3	(X)	(X)	-
30697 --	Druggist and Medical Sundries.....		(X)	(X)	116.8	(X)	(X)	84.1
	Rubber druggist and medical sundries, including household gloves:							
30697 11	Water bottles, fountain syringes, and combinations.....	1,000gross.	919.4	896.5	19.7	(S)	(S)	9.0
30697 31	Nipples and pacifiers.....	...do....				813.2	1,164.3	6.1
	Gloves, including rubberized:							
30697 51	Household.....	1,000 doz. pairs.	3,125.0	2,954.1	19.9	2,032.5	2,004.5	11.1
30697 61	Surgical.....	...do....	14,347.5	13,651.7	36.2	(S)	(S)	20.0
30697 75	Prophylactics.....	1,000 doz.	(S)	(S)	21.9	(S)	(S)	16.4
30697 76	Diaphragms, separate and in kits.....	1,000 units.				(S)	(S)	1.4
30697 79	Other, including ice bags and caps, and medical-surgical tubing.		(X)	(X)	19.1	(X)	(X)	20.2
30697 00	Druggist and medical sundries, n.s.k.....							
30698 --	Other Rubber Goods, N.E.C.....		(X)	(X)	533.8	(X)	(X)	470.5
	Rubber coated fabrics:							
30698 14	Garment fabrics.....	Mil.sq.yd.	(S)	(S)	2.9	(S)	(S)	15.5
30698 16	Footwear fabrics.....	...do....	(S)	(S)	7.0	(S)	(S)	10.2
30698 17	Protective covering fabrics.....	...do....	(S)	(S)	26.6	45.1	44.6	53.3
30698 18	Inflatable fabrics.....	...do....			1.9			
30698 19	Other coated fabrics, including automotive and furniture upholstery, and hospital and crib sheeting.....	...do....	(S)	(S)	29.5			
30698 22	Unsupported film and sheeting, all thicknesses.....	...do....	(S)	(S)	7.6	13.5	13.5	6.8
	Rubber clothing:							
30698 41	Industrial rubber gloves.....	1,000 doz. pairs.	(S)	(S)	23.2	1,177.1	1,367.2	12.0
30698 55	Bathing and shower caps.....	1,000 gross.	(S)	(S)	1.8	(S)	(S)	3.9
30698 58	Other rubber clothing (rainwear, aprons, dress shields, baby pants, etc.).....		(X)	(X)	12.9	(X)	(X)	10.7
30698 61	Thread, bare.....	Million lb.	32.7	32.5	34.3	21.8	21.6	25.2
30698 67	Balloons, toy, advertising, meteorological, etc.....		(X)	(X)	23.0	(S)	(S)	12.5
	Stationers' sundries:							
30698 73	Bands.....	Million lb.	15.9	15.9	11.9	15.1	14.0	9.5
30698 74	Other, including finger cots, and erasers but excluding pencil plugs.....	...do....	(S)	(S)	6.4	(S)	(S)	5.8
30698 81	Toys, except balloons, balls, and dolls.....		-	-	5.7	-	-	4.1
30698 91	Compounds or mixtures for sale or interplant transfer, excluding slab rubber for use in automatic tread rubber extruding machines.....		(X)	(X)	186.7	(X)	(X)	172.3
30698 98	Other rubber goods, including rubber brushes, combs, mouth pieces, etc., also gutta percha, balata, and other gutta products.....		(X)	(X)	129.2	(X)	(X)	106.6
30698 00	Other rubber goods, n.e.c., n.s.k.....		(X)	(X)	23.2	(X)	(X)	22.1
30690 00	Fabricated rubber products, n.e.c., n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	111.3	(X)	(X)	87.8
30690 02	Fabricated rubber products, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	29.4	(X)	(X)	14.3

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3079- --	MISCELLANEOUS PLASTICS PRODUCTS, TOTAL ⁷	11,094.5	(NA)
	Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes:		
	As reported in census of manufactures.....	2,064.8	1,225.4
30791 --	Made from purchased resins.....	2,064.8	1,009.8
	Made from resins produced in same establishment.....		215.7
	As reported in Current Industrial Reports MA-30D.....	(⁸)	1,030.0
30791 --	Made from purchased resins.....	(⁸)	851.6
	Made from resins produced in same establishment.....	(⁸)	178.4
	Unsupported film, sheets, and sheeting.....	(⁸)	889.5
	Cellulosic.....	(⁸)	69.6
30791 10	Less than 3.0 mils and not specified by gage.....	(⁸)	16.1
30791 11		(⁸)	
30791 13	3.0 mils to 9.9 mils.....	(⁸)	28.4
30791 15	10.0 mils and over.....	(⁸)	25.0
	Polyethylene.....	(⁸)	258.1
30791 21	Less than 3.0 mils.....	(⁸)	188.1
30791 23	3.0 mils to 9.9 mils.....	(⁸)	55.4
30791 25	10.0 mils and over.....	(⁸)	5.3
30791 20	Not specified by gage.....	(⁸)	9.4
	Polypropylene.....	(⁸)	28.5
30791 31	Less than 3.0 mils.....	(⁸)	22.9
30791 33-35	3.0 mils and over.....	(⁸)	5.6
	Polystyrene.....	(⁸)	32.3
30791 41	Less than 3.0 mils.....	(⁸)	11.5
30791 43	3.0 mils to 9.9 mils.....	(⁸)	
30791 45	10.0 mils and over.....	(⁸)	
30791 51	Styrene copolymer, all gages.....	(⁸)	2.1
30791 60	Vinyl and vinyl copolymer.....	(⁸)	280.1
30791 61	Less than 3.0 mils and not specified by gage.....	(⁸)	981.3
30791 63	3.0 mils to 9.9 mils.....	(⁸)	85.7
30791 65	10.0 mils and over.....	(⁸)	113.1
30791 60	Not specified by gage.....	(⁸)	(⁹)
	Other unsupported plastic film, sheets, and sheeting.....	(⁸)	218.7
30791 71	Less than 3.0 mils.....	(⁸)	96.1
30791 73	3.0 mils to 9.9 mils.....	(⁸)	24.8
30791 75	10.0 mils and over.....	(⁸)	97.9
	Unsupported plastics rods, tubes, and other stock shapes (excluding foam).....	(⁸)	138.7
30791 81	Acrylate and methacrylate.....	(⁸)	6.7
30791 83	Cellulosics.....	(⁸)	18.1
30791 85	Polyamide (nylon).....	(⁸)	8.0
30791 87	Polyethylene.....	(⁸)	6.1
30791 89	Polypropylene.....	(⁸)	17.5
30791 91	Polystyrene.....	(⁸)	6.5
30791 93	Styrene copolymer.....	(⁸)	1.3
30791 95	Vinyl and vinyl copolymer.....	(⁸)	35.7
30791 97	Other unsupported plastics rods, tubes, and other stock shapes.....	(⁸)	38.8
30791 00	Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes, n.s.k.....	(⁸)	1.9
30792 --	Foamed Plastics Products:		
	As reported in census of manufactures.....	878.3	492.8
	As reported in Current Industrial Reports MA-30D.....	(⁸)	428.8
30792 11	Mattress cores (uncovered only).....	(⁸)	22.5
30792 21	Formed and slab stock for pillows, seating, cushioning, etc.....	(⁸)	220.5
	Insulation:		
30792 33	Pipe.....	(⁸)	2.8
30792 35	Block.....	(⁸)	10.4
30792 37	Other foamed insulation.....	(⁸)	38.5
30792 30	Insulation, not specified by kind.....	(⁸)	
30792 41	Carpet and rug cushions.....	(⁸)	4.2
30792 98	Other foamed plastics products.....	(⁸)	113.7
30792 00	Foamed plastics products, not specified by kind.....	(⁸)	16.1
30793 --	Laminated Sheets, Rods, and Tubes:		
	As reported in census of manufactures.....	568.1	352.8
	As reported in Current Industrial Reports MA-30D.....	(⁸)	330.3
	High pressure thermosetting:		
30793 11	Decorative sheets.....	(⁸)	175.5
30793 21	Metal clad sheets.....	(⁸)	47.2
30793 31	Other sheets.....	(⁸)	38.9
30793 41	Rods and tubes.....	(⁸)	11.3
	Low pressure:		
30793 51	Thermosetting sheets.....	(⁸)	20.4
30793 61	Thermosetting rods and tubes.....	(⁸)	4.5
30793 71	Thermoplastic sheets, rods, and tubes on materials other than textile or random fiber.....	(⁸)	30.2
30793 00	Laminated sheets, rods, and tubes, n.s.k.....	(⁸)	-

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3079- --	MISCELLANEOUS PLASTICS PRODUCTS—Continued		
30794 --	Packaging and Shipping Containers, Plastics:		
	As reported in census of manufactures.....	1,271.4	774.5
	As reported in Current Industrial Reports MA-30D.....	(⁸)	784.3
30794 11	Baskets.....	(⁸)	7.7
30794 21	Open top and trays, except tote boxes.....	(⁸)	20.7
30794 23	Tote boxes.....	(⁸)	8.0
30794 27	Boxes and cases with tops.....	(⁸)	54.5
	Bottles and drums:		
30794 31	Less than 8 fluid ounce bottles and vials.....	(⁸)	48.3
30794 32	8 to 32 fluid ounce bottles.....	(⁸)	103.2
30794 33	33 to 64 fluid ounce bottles.....	(⁸)	28.9
30794 35	65 to 128 fluid ounce bottles.....	(⁸)	36.3
30794 37	129 to 256 fluid ounce bottles.....	(⁸)	3.6
30794 41	5 gallons only.....	(⁸)	.9
30794 43	Over 2 gallons (except 5 gallons).....	(⁸)	6.5
30794 40	Not specified by size.....	(⁸)	8.2
30794 53	Disposable cups and tumblers, including foamed.....	(⁸)	61.3
30794 57	Jars and tubs.....	(⁸)	32.2
30794 67	Foamed protective shipping pads and shaped packaging.....	(⁸)	14.4
30794 71	Caps and closures.....	(⁸)	185.2
30794 77	Blister and bubble formed packaging.....	(⁸)	7.7
30794 51	Cans.....	(⁸)	143.3
30794 98	Other plastics packaging and related products, including synthetic meat and sausage casings.....	(⁸)	
30794 00	Plastics packaging and shipping containers, n.s.k.....	(⁸)	13.4
30795 --	Industrial Plastics Products:		
	As reported in census of manufactures.....	1,819.5	¹⁰ 1,263.7
	As reported in Current Industrial Reports MA-30D.....	(⁸)	¹⁰ 1,288.5
30795 11	Gears, bearings, bushings, and cams.....	(⁸)	32.1
	Components, housings, accessories, and parts for transportation equipment:		
30795 21	Motor vehicles.....	(⁸)	305.6
30795 23	Aircraft.....	(⁸)	58.4
30795 25	Missile.....	(⁸)	45.1
30795 28	Other transportation equipment.....	(⁸)	18.0
30795 31	Office, computing, and accounting machines, cash registers, data processing machines, etc.....	(⁸)	46.6
	Household and commercial appliances:		
30795 41	Air conditioners.....	(⁸)	15.2
30795 43	Refrigerators and freezers.....	(⁸)	61.2
30795 45	Other major appliances.....	(⁸)	58.0
30795 47	Small appliances.....	(⁸)	53.0
30795 51	Other electrical and electronic equipment, including wiring devices.....	(⁸)	197.1
30795 68	Other components, housings, accessories, and parts.....	(⁸)	100.0
30795 98	Other industrial plastics products.....	(⁸)	¹⁰ 155.3
30795 00	Industrial plastics products, n.s.k.....	(⁸)	142.8
30796 --	Construction plastics products:		
	As reported in census of manufactures.....	1,114.8	426.7
	As reported in Current Industrial Reports MA-30D.....	(⁸)	391.0
30796 11	Corrugated and flat panels.....	(⁸)	58.3
30796 21	Doors and partitions, folding accordian type.....	(⁸)	16.2
	Unsupported plastics floor, wall, and counter coverings:		
30796 31	Sheet goods.....	(⁸)	11.8
30796 35	Floor tile.....	(⁸)	39.2
30796 37	Wall tile.....	(⁸)	10.9
30796 51	Plumbing fixtures and parts, excluding pipe and fittings.....	(⁸)	18.4
	Pipe:		
30796 53	1/2" to less than 2" inside diameter.....	(⁸)	44.2
30796 55	2" inside diameter and over.....	(⁸)	51.3
30796 54	Not specified by size.....	(⁸)	11.1
30796 57	Fittings and unions.....	(⁸)	51.2
30796 98	Other construction plastics products.....	(⁸)	78.5
30796 00	Construction plastics products, n.s.k.....	(⁸)	
30797 --	Plastics Dinnerware, Tableware, and Kitchenware:		
	As reported in census of manufactures.....	377.3	205.2
	As reported in Current Industrial Reports MA-30D.....	(⁸)	180.7
30797 13	Plastics dinnerware and kitchenware (for serving food and drink).....	(⁸)	95.7
30797 15	Plastics kitchenware (for storing food and drink).....	(⁸)	
30797 00	Plastics dinnerware, tableware, and kitchenware, n.s.k.....	(⁸)	85.0

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes (quantity)	Total product shipments including interplant transfers	
				Quantity	Value
				(million dollars)	
1972					
3079- --	MISCELLANEOUS PLASTICS PRODUCTS--Continued				
30798 --	Regenerated Cellulosic Products, Except Rayon ¹¹		(X)	(X)	429.3
	Sheets and rolls (cellophane):				
30798 13	Uncoated and nitrocellulosic coated.....	1,000 units....	307.7	302.0	195.5
30798 15	Polymer coated.....	..do.....			
30798 31	Caps and hands.....	..do.....			
30798 51	Sponges.....	..do.....			
30798 98	Other.....	..do.....	(S)	(S)	164.9
30798 00	Regenerated cellulosic products, except rayon, n.s.k.....	..do.....	(X)	(X)	43.7
30799 --	Custom Compounded Purchased Resins:				
30799 11	Custom compounding of purchased resins ¹¹		(X)	(X)	227.2
30790 --	Consumer and Commercial Plastics Products, N.E.C., and Miscellaneous Plastics Products, N.S.K.: As reported in census of manufactures ¹²		(X)	(X)	2,343.8
	Plastics and resin materials, n.e.c.: ¹¹				
	Monofilaments not suitable for further manufacturing on textile processing equipment:				
30790 11	Polyamide (nylon).....	1,000 units....	(¹³)	(¹³)	(¹³)
30790 13	Polyethylene.....	..do.....	30.9	30.9	6.4
30790 15	Polypropylene.....	..do.....	(¹³)	(¹³)	(¹³)
30790 19	Other.....	..do.....	1346.6	1346.5	1355.8
30790 31	Cellulose and other plastics film from scrap.....	..do.....	-	-	-
	Vulcanized fiber:				
30790 41	Sheets.....	..do.....	37.0	35.5	17.7
30790 43	Rods, tubes, and holloware semimanufactured.....	..do.....	5.2	5.9	8.8
30790 49	Other plastics and resin materials, n.e.c.....	..do.....	(S)	(S)	68.9
30790 65	Tubing under 1/2-inch inside diameter, except medical, surgi- cal, and reinforced.....		(X)	(X)	4.9
30790 91	Other consumer and commercial plastics products, n.e.c. ¹⁴		(X)	(X)	985.7
30790 00	Miscellaneous plastics products, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	920.8
30790 02	Miscellaneous plastics products, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	274.8
	As reported in Current Industrial Reports MA-30D ¹²		(X)	(X)	(⁸)
30790 71	Utility containers.....		(X)	(X)	(⁸)
30790 73	Flower pots, flower boxes, and planters.....		(X)	(X)	(⁸)
30790 45	Shoe products.....		(X)	(X)	(⁸)
30790 65	Tubing under 1/2-inch inside diameter, except medical, surgi- cal, and reinforced.....	1,000 units....	(X)	(X)	(⁸)
30790 81	Hardware.....	..do.....	(X)	(X)	(⁸)
30790 83	Picnic jugs, cooler chests, and ice buckets (including foamed).	..do.....	(X)	(X)	(⁸)
30790 98	Other consumer and commercial plastics products, n.e.c.....	..do.....	(X)	(X)	(⁸)
30790 00	Other consumer and commercial plastics products, n.e.c., n.s.k. Plastics products, n.s.k. (estimated for companies with less than \$250 thousand in shipments).....	..do.....	(X)	(X)	(⁸)
1967					
30798 --	Regenerated Cellulosic Products, Except Rayon ¹¹		(X)	(X)	326.9
	Sheets and rolls (cellophane):				
30798 13	Uncoated and nitrocellulosic coated.....	1,000 units....	392.9	382.8	224.7
30798 15	Polymer coated.....	..do.....			
30798 31	Caps and hands.....	..do.....			
30798 51	Sponges.....	..do.....			
30798 98	Other.....	..do.....	(S)	(S)	102.2
30798 00	Regenerated cellulosic products, except rayon, n.s.k.....	..do.....			
30799 --	Custom Compounded Purchased Resins:				
30799 11	Custom compounding of purchased resins ¹¹		(X)	(X)	236.0
30790 --	Consumer and Commercial Plastics Products, N.E.C.: As reported in census of manufactures.....		(X)	(X)	(NA)
	Plastics and resin materials, n.e.c.: ¹¹				
	Monofilaments not suitable for further manufacturing on textile processing equipment:				
30790 11	Polyamide (nylon).....	1,000 units....	(¹⁵)	(¹⁵)	(¹⁵)
30790 13	Polyethylene.....	..do.....	27.6	29.5	6.1
30790 15	Polypropylene.....	..do.....	1.7	1.7	2.7
30790 19	Other.....	..do.....	20.7	21.2	23.6

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production for all purposes (quantity)	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)
3079- --	MISCELLANEOUS PLASTICS PRODUCTS--Continued				
30790 --	Consumer and Commercial Plastics Products, N.E.C.--Continued				
	As reported in census of manufactures--Continued				
	Plastics and resin materials, n.e.c.--Continued				
30790 31	Cellulose and other plastics film from scrap.....		(14)	(14)	(14)
	Vulcanized fiber:				
30790 41	Sheets.....	1,000 units....	36.1	36.4	20.5
30790 43	Rods, tubes, and holloware semimanufactured.....	...do.....			
30790 49	Other plastics and resin materials, n.e.c.....	...do.....		(S)	11.4
30790 65	Tubing under 1/2-inch inside diameter, except medical, surgi- cal, and reinforced.....		(X)	(X)	(NA)
30790 91	Other consumer and commercial plastics products, n.e.c. ¹⁴ ...		(X)	(X)	(NA)
30790 00	Miscellaneous plastics products, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	315.6
30790 02	Miscellaneous plastics products, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	80.5
	As reported in Current Industrial Reports MA-30D ¹²		(X)	(X)	685.3
30790 71	Utility containers.....		(X)	(X)	68.6
30790 73	Flower pots, flower boxes, and planters.....		(X)	(X)	12.0
30790 45	Shoe products.....		(X)	(X)	55.0
30790 65	Tubing under 1/2-inch inside diameter, except medical, surgi- cal, and reinforced.....	1,000 units....	(X)	(X)	11.6
30790 81	Hardware.....	...do.....	(X)	(X)	13.4
30790 83	Picnic jugs, cooler chests, and ice buckets (including foamed).	...do.....	(X)	(X)	23.5
30790 98	Other consumer and commercial plastics products, n.e.c.....		(X)	(X)	266.0
30790 00	Other consumer and commercial plastics products, n.e.c., n.s.k. Plastics products, n.s.k. (estimated for companies with less than \$250 thousand in shipments).....		(X)	(X)	25.6
			(X)	(X)	209.6

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Product code 30113 35 included in product code 30113 00.

²Product code 30114 24 included in product codes 30114 26 and 30114 27.

³Quantity data as published in the 1972 Current Industrial Report series MA-30A, Rubber Supply and Distribution, were 194,447 long tons produced.

⁴Product code 30416 65 included in code 30416 00.

⁵Codes 30695 11 and 30695 75 included in code 30695 98 for 1967.

⁶SIC code 30695 98 in 1967 included codes now classified in industry 3293 causing a significant drop in value in 1972.

⁷The difference between the Census total for 1972 (\$11,091.8 million) and the Current Industrial Report series MA-30D, "Shipments of Selected Plastics Products," figure for 1972 (\$7,883.1 million) is due partly to changes in the Standard Industrial Classification. The MA-30D for 1972 did not collect data for new product classes 30798, 30799, and part of 30790. However, the large discrepancy between the two totals is due mainly to undercoverage on the part of the CIR. The CIR panel, the majority of which is selected every 5 years from the census of manufactures, excludes establishments with value of shipments of less than \$250 thousand. In an industry with rapid growth rates, the CIR panel will tend to become undercovered over a 5-year period. A large number of establishments will be added to the 1973 MA-30D panel, and a substantial increase in the revised 1972 value of shipments is anticipated.

⁸The 1972 product class totals and the 1972 data for each product line will be published separately in the 1973 MA-30D.

⁹To avoid disclosing figures for individual companies, "Less than 3.0 mils" and "Not specified by gage" are shown as a combined figure.

¹⁰Includes products, valued at approximately 3 percent of the 1967 product class total, which are now classified in other industries.

¹¹Not included in 1972 Current Industrial Reports series MA-30D.

¹²The census of manufactures and Current Industrial Report series MA-30D totals for product class 30790 are not comparable, because data for plastics and resin materials, n.e.c., (product codes 30790 11 to 30790 49) were not collected on the MA-30D for 1972 and 1967.

¹³Included in 30790 19 in 1972.

¹⁴Census product code 30790 91 includes Current Industrial Reports series MA-30D product codes 30790 45, 71, 73, 81, 83, and 98.

¹⁵Included in 30790 49 in 1967.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PASSENGER CAR AND MOTORCYCLE PNEUMATIC TIRES (CASINGS) (30111)			TRUCK AND BUS, AND OFF-HIGHWAY PNEUMATIC TIRES (30112)--Continued		
United States.....	2,860.0	1,713.6	West Region.....	92.7	64.7
Northeast Region.....	366.3	255.1	Mountain Division.....	EE	CC
New England Division.....	GG	GG	Colorado.....	EE	CC
Massachusetts.....	GG	GG	Pacific Division.....	GG	GG
Connecticut.....	FF	FF	California.....	GG	GG
Middle Atlantic Division.....	GG	GG			
New York.....	FF	FF	OTHER PNEUMATIC TIRES AND SOLID TIRES (30113)		
Pennsylvania.....	229.0	131.7	United States.....	381.1	274.5
North Central Region.....	1,040.1	764.6	Northeast Region.....	39.0	20.2
East North Central Division.....	850.5	623.7	New England Division.....	14.5	CC
Ohio.....	376.4	311.4	Maine.....	BB	AA
Indiana.....	GG	FF	Massachusetts.....	CC	CC
Illinois.....	GG	GG	Middle Atlantic Division.....	24.5	EE
Michigan.....	GG	GG	New Jersey.....	AA	(NA)
Wisconsin.....	GG	GG	Pennsylvania.....	FF	EE
West North Central Division.....	189.7	140.9			
Iowa.....	GG	GG	North Central Region.....	222.2	193.1
Kansas.....	GG	GG	East North Central Division.....	112.6	130.0
South Region.....	1,162.8	485.8	Ohio.....	65.9	103.7
South Atlantic Division.....	290.7	GG	Indiana.....	1.3	CC
Maryland.....	FF	FF	Illinois.....	FF	BB
Virginia.....	FF	(NA)	Michigan.....	EE	EE
North Carolina.....	GG	BB	Wisconsin.....	BB	BB
Georgia.....	GG	(NA)	West North Central Division.....	109.6	63.0
East South Central Division.....	599.5	306.0	Iowa.....	GG	FF
Kentucky.....	GG	FF	Kansas.....	FF	EE
Tennessee.....	191.0	GG			
Alabama.....	280.9	141.4	South Region.....	111.0	57.9
Mississippi.....	GG	FF	South Atlantic Division.....	FF	EE
West South Central Division.....	272.6	GG	Maryland.....	BB	EE
Arkansas.....	GG	GG	Virginia.....	EE	(NA)
Oklahoma.....	88.7	EE	Georgia.....	BB	BB
Texas.....	GG	GG	East South Central Division.....	57.8	20.9
West Region.....	290.7	208.1	Tennessee.....	23.6	CC
Mountain Division.....	FF	FF	Alabama.....	FF	EE
Colorado.....	FF	FF	Mississippi.....	BB	(NA)
Pacific Division.....	GG	GG	West South Central Division.....	FF	FF
California.....	GG	GG	Oklahoma.....	FF	EE
			Texas.....	CC	(NA)
TRUCK AND BUS, AND OFF-HIGHWAY PNEUMATIC TIRES (30112)					
United States.....	1,282.1	829.4	West Region.....	8.9	3.3
Northeast Region.....	102.3	77.9	Pacific Division.....	CC	3.3
New England Division.....	FF	FF	California.....	CC	3.3
Massachusetts.....	EE	EE			
Connecticut.....	CC	CC	ALL INNER TUBES (30114)		
Middle Atlantic Division.....	GG	GG	United States.....	146.7	112.9
New York.....	FF	EE	Northeast Region.....	24.9	16.6
Pennsylvania.....	54.0	38.5	New England Division.....	BB	BB
North Central Region.....	593.2	429.7	Massachusetts.....	BB	BB
East North Central Division.....	468.8	339.6	Middle Atlantic Division.....	FF	EE
Ohio.....	281.8	228.2	Pennsylvania.....	FF	EE
Indiana.....	FF	FF			
Illinois.....	GG	EE	North Central Region.....	37.7	39.4
Michigan.....	GG	FF	East North Central Division.....	FF	FF
Wisconsin.....	FF	EE	Ohio.....	EE	18.5
West North Central Division.....	124.4	90.1	Indiana.....	CC	EE
Iowa.....	FF	FF	West North Central Division.....	EE	CC
Kansas.....	GG	GG	Missouri.....	CC	CC
South Region.....	493.8	257.0	Kansas.....	AA	(NA)
South Atlantic Division.....	GG	FF			
Maryland.....	GG	FF	South Region.....	84.1	57.0
Virginia.....	GG	EE	South Atlantic Division.....	CC	CC
North Carolina.....	EE	(NA)	Maryland.....	CC	CC
East South Central Division.....	223.2	124.6	East South Central Division.....	42.9	33.8
Kentucky.....	FF	EE	Alabama.....	FF	FF
Tennessee.....	GG	FF	Mississippi.....	CC	CC
Alabama.....	GG	GG	West South Central Division.....	FF	EE
Mississippi.....	EE	CC	Arkansas.....	FF	EE
West South Central Division.....	GG	GG	Oklahoma.....	CC	BB
Arkansas.....	EE	CC			
Oklahoma.....	GG	FF			
Texas.....	FF	FF			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
TREAD RUBBER, TIRE SUNDRIES, AND REPAIR MATERIALS (30115)			RUBBER AND PLASTICS SHOES, SLIPPERS, OTHER FOOTWEAR, N.E.C., (30212)--Continued		
United States.....	217.0	198.3	Northeast Region--Continued		
Northeast Region.....	31.9	31.9	Middle Atlantic Division.....	51.0	(NA)
New England Division.....	8.5	10.1	New York.....	EE	(NA)
Maine.....	AA	(NA)	New Jersey.....	CC	(NA)
Massachusetts.....	BB	BB	Pennsylvania.....	30.1	(NA)
Rhode Island.....	BB	BB			
Middle Atlantic Division.....	23.4	21.8	North Central Region.....	21.1	(NA)
New Jersey.....	BB	BB	East North Central Division.....	EE	(NA)
Pennsylvania.....	FF	EE	Indiana.....	EE	(NA)
			Wisconsin.....	BB	(NA)
North Central Region.....	60.1	66.4	West North Central Division.....	BB	(NA)
East North Central Division.....	41.1	53.5	Missouri.....	BB	(NA)
Ohio.....	26.4	44.6			
Indiana.....	CC	4.6	South Region.....	143.9	(NA)
Illinois.....	CC	BB	South Atlantic Division.....	126.9	(NA)
West North Central Division.....	19.0	12.9	Maryland.....	FF	(NA)
Iowa.....	EE	CC	West Virginia.....	CC	(NA)
Kansas.....	BB	BB	North Carolina.....	FF	(NA)
			South Carolina.....	BB	(NA)
South Region.....	93.1	64.3	Georgia.....	FF	(NA)
South Atlantic Division.....	55.3	30.1	Florida.....	FF	(NA)
Maryland.....	BB	BB	East South Central Division.....	EE	(NA)
Virginia.....	AA	(NA)	Tennessee.....	EE	(NA)
North Carolina.....	FF	BB	West South Central Division.....	BB	(NA)
South Carolina.....	CC	CC	Arkansas.....	BB	(NA)
Georgia.....	15.7	15.8			
East South Central Division.....	18.5	19.0	West Region.....	8.4	(NA)
Tennessee.....	CC	CC	Mountain Division.....	BB	(NA)
Alabama.....	EE	EE	Colorado.....	BB	(NA)
Mississippi.....	AA	BB	Pacific Division.....	BB	(NA)
West South Central Division.....	19.4	15.2	California.....	BB	(NA)
Oklahoma.....	BB	BB			
Texas.....	EE	11.3	RUBBER AND PLASTICS BELTS AND BELTING, FLAT (30411)		
			United States.....	157.6	(NA)
West Region.....	34.1	35.7	Northeast Region.....	64.6	(NA)
Pacific Division.....	34.1	35.7	New England Division.....	8.1	(NA)
Washington.....	AA	AA	Massachusetts.....	8.1	(NA)
Oregon.....	BB	BB	Middle Atlantic Division.....	56.5	(NA)
California.....	FF	FF	New York.....	12.1	(NA)
			New Jersey.....	37.1	(NA)
RUBBER AND PLASTICS PROTECTIVE FOOTWEAR (30211)			Pennsylvania.....	7.3	(NA)
United States.....	80.1	(NA)			
Northeast Region.....	35.2	(NA)	North Central Region.....	78.4	(NA)
New England Division.....	23.1	(NA)	East North Central Division.....	GG	(NA)
New Hampshire.....	CC	(NA)	Ohio.....	62.1	(NA)
Massachusetts.....	CC	(NA)	Indiana.....	CC	(NA)
Connecticut.....	BB	(NA)	Michigan.....	AA	(NA)
Middle Atlantic Division.....	12.2	(NA)	West North Central Division.....	CC	(NA)
New York.....	CC	(NA)	Nebraska.....	CC	(NA)
New Jersey.....	CC	(NA)			
North Central Region.....	23.1	(NA)	South Region.....	2.5	(NA)
East North Central Division.....	23.1	(NA)	East South Central Division.....	AA	(NA)
Ohio.....	CC	(NA)	Kentucky.....	AA	(NA)
Illinois.....	EE	(NA)			
Wisconsin.....	CC	(NA)	West Region.....	12.1	(NA)
			Mountain Division.....	CC	(NA)
South Region.....	FF	(NA)	Colorado.....	CC	(NA)
South Atlantic Division.....	FF	(NA)	Pacific Division.....	BB	(NA)
Maryland.....	14.2	(NA)	California.....	BB	(NA)
Virginia.....	BB	(NA)			
North Carolina.....	AA	(NA)	RUBBER AND PLASTICS BELTS AND BELTING, OTHER THAN FLAT (30412)		
Florida.....	BB	(NA)	United States.....	204.0	(NA)
			Northeast Region.....	FF	(NA)
RUBBER AND PLASTICS SHOES, SLIPPERS, OTHER FOOTWEAR, N.E.C., (30212)			New England Division.....	BB	(NA)
United States.....	406.2	(NA)	Massachusetts.....	AA	(NA)
Northeast Region.....	235.5	(NA)	Connecticut.....	AA	(NA)
New England Division.....	184.5	(NA)	Middle Atlantic Division.....	EE	(NA)
Maine.....	EE	(NA)	New York.....	BB	(NA)
New Hampshire.....	30.9	(NA)	New Jersey.....	BB	(NA)
Massachusetts.....	GG	(NA)	Pennsylvania.....	EE	(NA)
Rhode Island.....	EE	(NA)			
Connecticut.....	FF	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
RUBBER AND PLASTICS BELTS AND BELTING, OTHER THAN FLAT (30412)--Continued			RUBBER AND PLASTICS GARDEN HOSE (30415)		
North Central Region.....	84.9	(NA)	United States.....	56.3	(NA)
East North Central Division.....	CC	(NA)	Northeast Region.....	28.2	(NA)
Ohio.....	CC	(NA)	New England Division.....	EE	(NA)
Indiana.....	AA	(NA)	Massachusetts.....	BB	(NA)
West North Central Division.....	GG	(NA)	Rhode Island.....	CC	(NA)
Minnesota.....	CC	(NA)	Middle Atlantic Division.....	EE	(NA)
Missouri.....	FF	(NA)	New York.....	BB	(NA)
Nebraska.....	FF	(NA)	New Jersey.....	EE	(NA)
South Region.....	FF	(NA)	North Central Region.....	17.2	(NA)
South Atlantic Division.....	EE	(NA)	East North Central Division.....	EE	(NA)
Delaware.....	AA	(NA)	Ohio.....	EE	(NA)
North Carolina.....	EE	(NA)	West North Central Division.....	AA	(NA)
East South Central Division.....	FF	(NA)	Nebraska.....	AA	(NA)
Kentucky.....	FF	(NA)	South Region.....	CC	(NA)
West Region.....	GG	(NA)	South Atlantic Division.....	BB	(NA)
Mountain Division.....	GG	(NA)	Delaware.....	BB	(NA)
Colorado.....	GG	(NA)	East South Central Division.....	AA	(NA)
			Tennessee.....	AA	(NA)
RUBBER AND PLASTICS HOSE, HORIZONTAL REINFORCED (30413)			West South Central Division.....	AA	(NA)
United States.....	144.4	(NA)	Oklahoma.....	AA	(NA)
Northeast Region.....	27.7	(NA)	West Region.....	CC	(NA)
Middle Atlantic Division.....	FF	(NA)	Mountain Division.....	AA	(NA)
New York.....	BB	(NA)	Colorado.....	AA	(NA)
New Jersey.....	FF	(NA)	Pacific Division.....	BB	(NA)
North Central Region.....	77.1	(NA)	California.....	BB	(NA)
East North Central Division.....	65.3	(NA)	ALL OTHER RUBBER AND PLASTICS HOSE, N.E.C. (30416)		
Ohio.....	FF	(NA)	United States.....	237.0	(NA)
Illinois.....	FF	(NA)	Northeast Region.....	52.9	(NA)
Michigan.....	AA	(NA)	New England Division.....	12.2	(NA)
Wisconsin.....	BB	(NA)	Massachusetts.....	CC	(NA)
West North Central Division.....	11.7	(NA)	Connecticut.....	BB	(NA)
Minnesota.....	AA	(NA)	Middle Atlantic Division.....	40.7	(NA)
Missouri.....	CC	(NA)	New York.....	BB	(NA)
Nebraska.....	BB	(NA)	New Jersey.....	33.1	(NA)
South Region.....	FF	(NA)	Pennsylvania.....	CC	(NA)
South Atlantic Division.....	FF	(NA)	North Central Region.....	82.9	(NA)
Delaware.....	FF	(NA)	East North Central Division.....	GG	(NA)
East South Central Division.....	CC	(NA)	Ohio.....	55.8	(NA)
Tennessee.....	CC	(NA)	Indiana.....	6.5	(NA)
West Region.....	CC	(NA)	Illinois.....	1.4	(NA)
Mountain Division.....	BB	(NA)	Michigan.....	AA	(NA)
Colorado.....	AA	(NA)	West North Central Division.....	EE	(NA)
Utah.....	BB	(NA)	Nebraska.....	EE	(NA)
			Kansas.....	BB	(NA)
RUBBER AND PLASTICS HOSE, CONTINUOUS MOLDED NONHYDRAULIC, EXCEPT GARDEN (30414)			South Region.....	58.5	(NA)
United States.....	84.8	(NA)	South Atlantic Division.....	29.0	(NA)
Northeast Region.....	EE	(NA)	Delaware.....	CC	(NA)
Middle Atlantic Division.....	EE	(NA)	North Carolina.....	EE	(NA)
New York.....	CC	(NA)	South Carolina.....	EE	(NA)
New Jersey.....	CC	(NA)	East South Central Division.....	EE	(NA)
North Central Region.....	43.5	(NA)	Kentucky.....	CC	(NA)
East North Central Division.....	43.5	(NA)	Tennessee.....	BB	(NA)
Ohio.....	EE	(NA)	West South Central Division.....	EE	(NA)
Illinois.....	FF	(NA)	Arkansas.....	CC	(NA)
South Region.....	CC	(NA)	Oklahoma.....	CC	(NA)
East South Central Division.....	CC	(NA)	West Region.....	42.8	(NA)
Tennessee.....	CC	(NA)	Mountain Division.....	FF	(NA)
West Region.....	EE	(NA)	Colorado.....	FF	(NA)
Mountain Division.....	EE	(NA)	Arizona.....	AA	(NA)
Colorado.....	EE	(NA)	Utah.....	BB	(NA)
			Pacific Division.....	CC	(NA)
			California.....	CC	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SPONGE AND FOAM RUBBER GOODS (30693)			MECHANICAL RUBBER GOODS, N.E.C. (30695)—Con.		
United States.....	350.1	276.7	North Central Region.....	684.9	(NA)
Northeast Region.....	92.5	100.0	East North Central Division.....	663.2	(NA)
New England Division.....	68.5	60.0	Ohio.....	314.3	(NA)
Rhode Island.....	BB	BB	Indiana.....	196.5	(NA)
Connecticut.....	GG	GG	Illinois.....	44.7	(NA)
Middle Atlantic Division.....	24.0	39.9	Michigan.....	85.4	(NA)
New Jersey.....	3.9	EE	Wisconsin.....	18.1	(NA)
Pennsylvania.....	19.4	21.5	West North Central Division.....	22.9	(NA)
North Central Region.....	147.3	102.7	Minnesota.....	6.6	(NA)
East North Central Division.....	GG	91.3	Iowa.....	4.1	(NA)
Ohio.....	GG	60.4	Missouri.....	2.7	(NA)
Indiana.....	35.2	FF	South Dakota.....	BB	(NA)
Illinois.....	15.1	CC	Nebraska.....	CC	(NA)
Michigan.....	BB	(NA)	South Region.....	127.3	(NA)
West North Central Division.....	FF	11.4	South Atlantic Division.....	64.7	(NA)
Iowa.....	EE	CC	Maryland.....	BB	(NA)
Missouri.....	CC	BB	Virginia.....	19.1	(NA)
South Region.....	87.8	49.4	West Virginia.....	AA	(NA)
South Atlantic Division.....	31.3	22.9	North Carolina.....	9.5	(NA)
Virginia.....	CC	BB	South Carolina.....	14.4	(NA)
West Virginia.....	EE	BB	Georgia.....	12.7	(NA)
North Carolina.....	4.4	EE	Florida.....	2.7	(NA)
Georgia.....	CC	BB	East South Central Division.....	15.3	(NA)
East South Central Division.....	44.0	25.2	Kentucky.....	AA	(NA)
Tennessee.....	FF	EE	Tennessee.....	CC	(NA)
Mississippi.....	FF	EE	Alabama.....	3.2	(NA)
West South Central Division.....	12.6	1.3	Mississippi.....	AA	(NA)
Arkansas.....	BB	(NA)	West South Central Division.....	47.3	(NA)
Texas.....	CC	1.3	Arkansas.....	22.9	(NA)
West Region.....	22.7	24.7	Louisiana.....	AA	(NA)
Pacific Division.....	FF	FF	Oklahoma.....	BB	(NA)
California.....	21.5	FF	Texas.....	FF	(NA)
RUBBER FLOOR AND WALL COVERING (30694)			West Region.....	86.4	(NA)
United States.....	98.4	70.7	Mountain Division.....	7.5	(NA)
Northeast Region.....	12.6	10.8	Colorado.....	CC	(NA)
New England Division.....	CC	BB	Utah.....	AA	(NA)
Massachusetts.....	BB	(NA)	Pacific Division.....	78.8	(NA)
Rhode Island.....	BB	AA	Washington.....	AA	(NA)
Middle Atlantic Division.....	CC	CC	Oregon.....	CC	(NA)
New Jersey.....	CC	AA	California.....	70.6	(NA)
North Central Region.....	58.9	46.7	RUBBER HEELS AND SOLES (30696)		
East North Central Division.....	GG	46.7	United States.....	154.5	126.1
Ohio.....	GG	FF	Northeast Region.....	59.9	68.6
Indiana.....	CC	CC	New England Division.....	GG	GG
South Region.....	18.4	6.8	New Hampshire.....	BB	AA
South Atlantic Division.....	BB	(NA)	Vermont.....	EE	EE
Georgia.....	BB	(NA)	Massachusetts.....	37.9	38.9
East South Central Division.....	BB	BB	Middle Atlantic Division.....	BB	(NA)
Alabama.....	BB	BB	New York.....	BB	(NA)
West South Central Division.....	EE	AA	North Central Region.....	EE	13.4
Texas.....	EE	AA	East North Central Division.....	9.6	CC
West Region.....	8.5	6.4	Ohio.....	CC	BB
Pacific Division.....	8.5	CC	Michigan.....	BB	BB
California.....	8.5	CC	West North Central Division.....	CC	CC
MECHANICAL RUBBER GOODS, N.E.C. (30695) ¹			Missouri.....	CC	CC
United States.....	1,144.4	(NA)	South Region.....	77.3	44.1
Northeast Region.....	245.8	(NA)	South Atlantic Division.....	FF	22.6
New England Division.....	87.9	(NA)	Maryland.....	CC	EE
New Hampshire.....	BB	(NA)	Virginia.....	CC	CC
Massachusetts.....	54.6	(NA)	West Virginia.....	CC	BB
Rhode Island.....	AA	(NA)	East South Central Division.....	47.4	EE
Connecticut.....	30.1	(NA)	Kentucky.....	CC	(NA)
Middle Atlantic Division.....	157.5	(NA)	Tennessee.....	EE	CC
New York.....	51.9	(NA)	Mississippi.....	FF	CC
New Jersey.....	55.8	(NA)	West South Central Division.....	CC	BB
Pennsylvania.....	50.3	(NA)	Texas.....	CC	BB
DRUGGIST AND MEDICAL SUNDRIES (30697)			United States.....	116.8	84.1
United States.....			Northeast Region.....	29.8	36.6
Northeast Region.....			New England Division.....	CC	FF
New England Division.....			Rhode Island.....	CC	EE
New Hampshire.....			Connecticut.....	BB	CC
Massachusetts.....					
Rhode Island.....					
Connecticut.....					
Middle Atlantic Division.....					
New York.....					
New Jersey.....					
Pennsylvania.....					

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
DRUGGIST AND MEDICAL SUNDRIES (30697)--Continued			UNSUPPORTED PLASTICS FILM, SHEETS, RODS, AND TUBES (30791)--Continued		
Northeast Region--Continued			Northeast Region--Continued		
Middle Atlantic Division.....	FF	EE	Middle Atlantic Division.....	529.0	353.1
New York.....	AA	(NA)	New York.....	142.1	92.4
New Jersey.....	16.3	15.1	New Jersey.....	221.8	179.7
Pennsylvania.....	BB	AA	Pennsylvania.....	165.1	81.1
North Central Region.....	41.9	36.3	North Central Region.....	589.4	351.1
East North Central Division.....	41.9	36.3	East North Central Division.....	480.1	310.9
Ohio.....	FF	FF	Ohio.....	208.2	126.7
South Region.....	41.5	EE	Indiana.....	65.5	33.6
South Atlantic Division.....	32.3	EE	Illinois.....	74.6	76.2
Delaware.....	EE	CC	Michigan.....	86.0	58.9
South Carolina.....	13.8	(NA)	Wisconsin.....	45.8	15.4
Georgia.....	CC	AA	West North Central Division.....	109.3	40.3
East South Central Division.....	CC	(NA)	Minnesota.....	44.5	22.1
Alabama.....	CC	(NA)	Iowa.....	27.2	BB
West South Central Division.....	AA	(NA)	Missouri.....	22.3	11.9
Oklahoma.....	AA	(NA)	Kansas.....	EE	AA
West Region.....	3.6	(NA)	South Region.....	579.0	300.6
Mountain Division.....	BB	(NA)	South Atlantic Division.....	308.4	178.7
Arizona.....	AA	(NA)	Delaware.....	EE	9.2
Pacific Division.....	AA	(NA)	Maryland.....	BB	AA
California.....	AA	(NA)	Virginia.....	69.9	40.3
OTHER RUBBER GOODS, N.E.C., (30698) ²			West Virginia.....	FF	FF
United States.....	533.8	538.1	North Carolina.....	53.8	6.4
Northeast Region.....	149.7	202.5	South Carolina.....	76.5	59.9
New England Division.....	100.8	121.7	Georgia.....	30.2	FF
New Hampshire.....	BB	AA	Florida.....	23.3	5.0
Vermont.....	AA	(NA)	East South Central Division.....	183.9	86.7
Massachusetts.....	63.6	77.3	Kentucky.....	35.2	CC
Rhode Island.....	EE	20.7	Tennessee.....	68.4	FF
Connecticut.....	18.5	21.3	Alabama.....	63.0	34.7
Middle Atlantic Division.....	48.9	80.7	Mississippi.....	17.3	CC
New York.....	5.9	22.4	West South Central Division.....	86.7	35.2
New Jersey.....	17.7	28.1	Arkansas.....	EE	(NA)
Pennsylvania.....	25.5	30.2	Oklahoma.....	BB	BB
North Central Region.....	157.3	186.6	Texas.....	67.0	FF
East North Central Division.....	152.0	170.4	West Region.....	175.0	75.0
Ohio.....	112.4	100.6	Mountain Division.....	6.6	(NA)
Indiana.....	9.2	FF	Colorado.....	2.5	(NA)
Illinois.....	17.4	18.7	Arizona.....	BB	(NA)
Michigan.....	EE	23.6	Pacific Division.....	168.4	GG
Wisconsin.....	BB	BB	Washington.....	13.8	AA
West North Central Division.....	5.3	16.2	Oregon.....	EE	1.3
Minnesota.....	4.2	CC	California.....	142.8	70.6
South Region.....	189.5	112.3	FOAMED PLASTICS PRODUCTS (30792)		
South Atlantic Division.....	122.1	87.6	United States.....	878.3	492.8
Delaware.....	CC	BB	Northeast Region.....	183.8	131.3
Virginia.....	EE	25.3	New England Division.....	36.7	18.3
West Virginia.....	BB	EE	New Hampshire.....	BB	BB
North Carolina.....	20.9	7.4	Massachusetts.....	22.4	CC
South Carolina.....	BB	BB	Connecticut.....	CC	8.6
Georgia.....	71.7	36.2	Middle Atlantic Division.....	147.1	113.0
East South Central Division.....	57.7	18.1	New York.....	30.5	16.3
Kentucky.....	BB	(NA)	New Jersey.....	47.9	55.2
Tennessee.....	43.1	15.8	Pennsylvania.....	68.7	41.5
Alabama.....	EE	(NA)	North Central Region.....	357.0	198.0
West South Central Division.....	9.7	6.7	East North Central Division.....	315.2	185.6
Arkansas.....	BB	BB	Ohio.....	168.2	86.0
Oklahoma.....	4.5	(NA)	Indiana.....	47.2	29.9
Texas.....	AA	AA	Illinois.....	47.7	34.6
West Region.....	37.2	36.7	Michigan.....	47.5	35.1
Pacific Division.....	FF	FF	Wisconsin.....	4.6	(NA)
Washington.....	AA	(NA)	West North Central Division.....	41.8	12.4
California.....	FF	34.1	Minnesota.....	1.1	1.4
UNSUPPORTED PLASTICS FILM, SHEETS, RODS, AND TUBES (30791)			Iowa.....	FF	CC
United States.....	2,064.8	1,225.4	Missouri.....	12.7	3.7
Northeast Region.....	721.4	498.8	Kansas.....	1.2	(NA)
New England Division.....	192.4	145.7	South Region.....	240.6	125.5
Maine.....	EE	EE	South Atlantic Division.....	152.0	67.7
New Hampshire.....	BB	(NA)	Delaware.....	AA	AA
Vermont.....	AA	(NA)	Maryland.....	7.9	AA
Massachusetts.....	118.1	94.9	Virginia.....	FF	BB
Rhode Island.....	16.8	EE	North Carolina.....	81.8	20.6
Connecticut.....	35.5	27.6	South Carolina.....	BB	37.0
			Georgia.....	17.3	2.7
			Florida.....	4.1	1.4

See footnotes at end of table.

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
INDUSTRIAL PLASTICS PRODUCTS, EXCEPT BELTING, PACKING AND SEALS (30795)--Continued			PLASTICS DINNERTWARE, TABLEWARE, AND KITCHENWARE (30797)--Continued		
South Region--Continued			Northeast Region--Continued		
West South Central Division.....	54.5	22.4	Middle Atlantic Division.....	48.2	23.9
Arkansas.....	CC	1.1	New York.....	26.7	7.9
Louisiana.....	AA	(NA)	New Jersey.....	10.0	7.0
Oklahoma.....	14.2	5.6	Pennsylvania.....	11.5	8.9
Texas.....	29.2	15.7			
West Region.....	124.4	89.3	North Central Region.....	92.3	61.8
Mountain Division.....	7.7	1.8	East North Central Division.....	62.6	51.9
Arizona.....	CC	(NA)	Ohio.....	23.9	20.3
Utah.....	1.4	(NA)	Indiana.....	CC	BB
Pacific Division.....	116.7	87.5	Illinois.....	24.8	12.6
Washington.....	1.2	2.7	Michigan.....	5.6	EE
Oregon.....	2.0	1.4	Wisconsin.....	BB	BB
California.....	113.5	83.4	West North Central Division.....	29.7	9.9
CONSTRUCTION PLASTICS PRODUCTS (30796)			Minnesota.....	21.7	(NA)
United States.....	1,114.8	426.7	Missouri.....	6.6	7.4
Northeast Region.....	143.2	73.5	Kansas.....	AA	(NA)
New England Division.....	28.1	20.0	South Region.....	99.2	27.9
Massachusetts.....	EE	EE	South Atlantic Division.....	4.4	BB
Connecticut.....	CC	(NA)	Maryland.....	AA	BB
Middle Atlantic Division.....	115.1	53.5	Florida.....	1.7	(NA)
New York.....	40.5	18.5	East South Central Division.....	72.6	8.4
New Jersey.....	43.3	25.6	Kentucky.....	AA	(NA)
Pennsylvania.....	31.3	9.4	Tennessee.....	GG	(NA)
North Central Region.....	396.5	131.9	Mississippi.....	CC	CC
East North Central Division.....	297.2	93.2	West South Central Division.....	22.2	EE
Ohio.....	157.5	41.1	Oklahoma.....	AA	(NA)
Indiana.....	55.6	21.2	Texas.....	FF	EE
Illinois.....	27.6	13.2	West Region.....	25.4	14.6
Michigan.....	40.2	7.4	Mountain Division.....	CC	(NA)
Wisconsin.....	16.3	10.4	Idaho.....	CC	(NA)
West North Central Division.....	99.3	38.6	Pacific Division.....	EE	EE
Minnesota.....	43.6	EE	California.....	EE	EE
Iowa.....	9.5	AA	REGENERATED CELLULOSIC PRODUCTS, EXCEPT RAYON (30798)		
Missouri.....	15.0	7.0	United States.....	429.3	(NA)
Nebraska.....	CC	2.1	Northeast Region.....	42.0	(NA)
Kansas.....	25.0	CC	New England Division.....	4.1	(NA)
South Region.....	347.8	139.1	Massachusetts.....	BB	(NA)
South Atlantic Division.....	96.2	25.4	Middle Atlantic Division.....	37.9	(NA)
Delaware.....	CC	(NA)	New York.....	12.7	(NA)
Maryland.....	4.8	(NA)	Pennsylvania.....	FF	(NA)
Virginia.....	6.6	AA	North Central Region.....	165.9	(NA)
West Virginia.....	BB	(NA)	East North Central Division.....	GG	(NA)
North Carolina.....	20.2	BB	Ohio.....	11.1	(NA)
Georgia.....	21.4	AA	Indiana.....	FF	(NA)
Florida.....	31.4	16.0	Illinois.....	FF	(NA)
East South Central Division.....	99.5	65.4	Michigan.....	BB	(NA)
Kentucky.....	26.7	9.2	West North Central Division.....	GG	(NA)
Tennessee.....	EE	BB	Iowa.....	GG	(NA)
Alabama.....	54.0	GG	Missouri.....	2.4	(NA)
West South Central Division.....	152.1	48.4	Kansas.....	FF	(NA)
Arkansas.....	25.1	11.0	South Region.....	212.8	(NA)
Louisiana.....	BB	AA	South Atlantic Division.....	GG	(NA)
Oklahoma.....	CC	CC	Virginia.....	GG	(NA)
Texas.....	115.6	27.6	North Carolina.....	FF	(NA)
West Region.....	227.3	82.3	East South Central Division.....	GG	(NA)
Mountain Division.....	17.2	BB	Tennessee.....	GG	(NA)
Idaho.....	2.4	(NA)	Alabama.....	AA	(NA)
Colorado.....	6.1	(NA)	Mississippi.....	BB	(NA)
Arizona.....	5.6	BB	West Region.....	8.5	(NA)
Utah.....	BB	(NA)	Mountain Division.....	AA	(NA)
Pacific Division.....	210.1	GG	New Mexico.....	AA	(NA)
Washington.....	11.0	3.0	Pacific Division.....	6.9	(NA)
California.....	197.1	75.5	California.....	6.9	(NA)
Hawaii.....	AA	(NA)			
PLASTICS DINNERTWARE, TABLEWARE, AND KITCHENWARE (30797)			CUSTOM COMPOUNDED PURCHASED RESINS (30799)		
United States.....	377.3	205.2	United States.....	227.2	236.0
Northeast Region.....	160.4	100.9	Northeast Region.....	103.7	137.6
New England Division.....	112.2	77.0	New England Division.....	36.4	41.5
Maine.....	AA	AA	Massachusetts.....	EE	25.9
Massachusetts.....	FF	FF	Rhode Island.....	EE	EE
Rhode Island.....	GG	FF			
Connecticut.....	4.9	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CUSTOM COMPOUNDED PURCHASED RESINS (30799)--Con.			CUSTOM COMPOUNDED PURCHASED RESINS (30799)--Con.		
Northeast Region--Continued			South Region.....	44.0	21.9
Middle Atlantic Division.....	67.2	96.1	South Atlantic Division.....	23.5	8.9
New York.....	17.5	23.9	Delaware.....	AA	AA
New Jersey.....	28.8	61.4	Maryland.....	AA	BB
Pennsylvania.....	20.9	10.8	North Carolina.....	5.8	4.2
			South Carolina.....	BB	(NA)
			Georgia.....	8.7	(NA)
North Central Region.....	56.6	49.1	East South Central Division.....	EE	8.7
East North Central Division.....	53.1	37.4	Alabama.....	CC	(NA)
Ohio.....	17.9	7.7	Mississippi.....	BB	(NA)
Illinois.....	12.0	14.4	West South Central Division.....	CC	4.3
Michigan.....	22.4	13.4	Texas.....	CC	4.3
			West Region.....	22.9	27.5
West North Central Division.....	3.5	11.7	Pacific Division.....	FF	FF
Minnesota.....	BB	EE	California.....	22.0	FF

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

¹The individual product codes included in this class of products for 1972 differ significantly from the prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

²The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 13 percent of the total 1967 shipments at the U.S. level.

³The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 3 percent of the total 1967 shipments at the U.S. level.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3011	Tires and inner tubes.....	4,898.4	4,471.2	3,934.6	4,013.9	3,581.0	3,133.5	2,419.8	2,145.3
30111	Passenger car and motorcycle pneumatic tires.....	2,860.0	2,681.6	2,323.8	2,322.4	2,026.7	1,713.6	1,285.9	1,076.8
30112	Truck, bus, and off-highway pneumatic tires.....	1,282.1	1,169.9	1,027.0	1,074.3	937.7	829.4	659.5	602.0
30113	Other pneumatic tires and solid tires.....	381.1	280.1	256.9	272.3	290.5	274.5	186.8	185.5
30114	All inner tubes.....	146.7	123.1	120.2	122.7	116.2	112.9	95.1	100.2
30115	Tread rubber, tire sundries, etc.....	217.0	192.6	187.6	217.2	205.6	198.3	192.5	180.9
30110	Tires and inner tubes, n.s.k.....	11.5	23.9	(19.1)	5.0	4.3	4.9	-	-
3021	Rubber and plastics footwear.....	493.9	(NA)	(NA)	(NA)	(NA)	402.0	362.5	(NA)
30211	Rubber and plastics protective footwear.....	80.1	(NA)	(NA)	(NA)	(NA)	75.3	65.5	(NA)
30212	Rubber and plastics shoes, slippers, and other footwear, n.e.c.....	406.2	(NA)	(NA)	(NA)	(NA)	318.6	291.2	(NA)
30210	Rubber and plastics footwear, n.s.k.....	7.6	(NA)	(NA)	(NA)	(NA)	9.1	5.8	(NA)
30310	Reclaimed rubber.....	52.0	46.2	46.2	46.5	49.5	47.3	55.2	47.6
3041	Rubber and plastics hose and belting.....	886.0	(NA)	(NA)	(NA)	(NA)	672.1	497.5	(NA)
30411	Rubber and plastics belts and belting, flat.....	157.6	(NA)	(NA)	(NA)	(NA)	101.5	(NA)	(NA)
30412	Rubber and plastics belts and belting, not flat.....	204.0	(NA)	(NA)	(NA)	(NA)	149.1	(NA)	(NA)
30413	Rubber and plastics hose, horizontal reinforced.....	143.5	(NA)	(NA)	(NA)	(NA)	114.6	(NA)	(NA)
30414	Rubber and plastics hose, molded nonhydraulic, except garden.....	84.8	(NA)	(NA)	(NA)	(NA)	52.3	(NA)	(NA)
30415	Rubber and plastics garden hose.....	56.3	(NA)	(NA)	(NA)	(NA)	41.1	(NA)	(NA)
30416	All other rubber and plastics hose, n.e.c.....	237.0	(NA)	(NA)	(NA)	(NA)	213.4	(NA)	(NA)
30410	Rubber and plastics hose and belting, n.s.k.....	2.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c.....	2,538.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30693	Sponge and foam rubber goods.....	350.1	301.3	265.2	287.9	319.5	276.7	226.4	200.8
30694	Rubber floor and wall covering.....	98.4	90.3	82.6	86.1	74.2	70.7	93.2	99.4
30695	Mechanical rubber goods, n.e.c. ²	1,144.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30696	Rubber heels and soles.....	154.5	117.2	113.1	129.8	134.6	126.1	136.2	134.9
30697	Druggist and medical sundries.....	116.8	115.3	108.2	102.1	96.2	84.1	79.2	57.0
30698	Other rubber goods, n.e.c. ³	533.8	509.7	480.4	597.2	578.9	538.1	451.0	392.3
30690	Fabricated rubber products, n.e.c., n.s.k.....	140.7	(36.9)	(41.5)	(54.9)	(51.9)	102.1	42.4	21.6
3079	Miscellaneous plastics products.....	11,094.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
30791	Unsupported plastics film, sheets, rods, and tubes.....	2,064.8	1,803.3	1,562.3	1,379.2	1,228.8	1,225.4	688.1	(NA)
30792	Foamed plastics products.....	878.3	748.8	648.6	588.2	546.2	492.8	261.2	54.0
30793	Laminated sheets, rods, and tubes.....	568.1	447.4	425.6	428.1	398.0	352.8	244.1	162.9
30794	Packaging and shipping containers, plastics.....	1,271.4	1,075.5	1,008.6	1,167.8	1,035.5	774.5	441.8	(NA)
30795	Industrial plastics products ⁴	1,819.5	1,543.4	1,433.8	1,662.6	1,525.1	1,263.7	832.8	(NA)
30796	Construction plastics products.....	1,114.8	720.1	607.5	596.4	500.9	426.7	283.8	(NA)
30797	Plastics dinnerware, tableware, and kitchenware.....	377.3	286.5	272.9	233.3	201.9	205.2	147.6	(NA)
30798	Regenerated cellulosic products, except rayon.....	429.3	325.5	324.7	325.4	338.1	326.9	327.6	302.0
30799	Custom compounded purchased resins.....	227.2	297.1	258.7	283.0	261.4	236.0	184.6	(NA)
30790	Consumer and commercial plastics products, n.e.c., and miscellaneous plastics products, n.s.k.....	2,343.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

- Represents zero. (NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²The individual product codes included in this class of products for 1972 differ significantly from the prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

³The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 13 percent of the total 1967 shipments at the U.S. level.

⁴The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 3 percent of the total 1967 shipments at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 3011.--TIRES AND INNER TUBES						
	Materials, containers, and supplies, total.....		(X)	2,169.5	(X)	1,514.8
	Natural rubber:					
084913	Latex (dry solids content).....	1,000 l. tons.	22.1	9.0	339.5	156.8
084915	Dry.....	..do.....	444.1	177.7		
	Synthetic rubber:					
282201	S-type butadiene-styrene copolymers.....	..do.....	1,023.4	387.3	688.4	260.6
282207	Polyisoprene type.....	..do.....	65.4	26.1	34.5	16.2
282215	Ethylene-propylene type.....	..do.....	11.4	7.0		
282204	Butyl type.....	..do.....	83.4	49.3	61.2	36.0
282205	Neoprene.....	..do.....	(S)	10.6	6.5	6.0
282206	N-type (butadiene-acrylonitrile).....	..do.....			3.4	1.3
282211	Stereo polybutadiene elastomers (solution-polymerized polybutadiene).....	..do.....	355.0	168.4	154.8	80.2
282208	Polyurethane.....	..do.....	2.6	2.8	.7	.5
282209	Other elastomers.....	..do.....			12.2	5.6
303101	Reclaimed rubber (excluding "mud" and crumb or ground scrap).....	..do.....	122.5	33.8	156.4	32.1
306980	Rubber compounds and mixtures purchased (dry rubber solids content).....	..do.....	88.0	33.6	67.7	30.8
286933	Rubber processing chemicals.....		(X)	99.8	(X)	67.8
286935	Plasticizers.....	Million lb....	356.8	22.6	218.7	12.6
289501	Carbon black.....	..do.....	1,788.2	148.8	1,155.9	93.3
281600	Inorganic pigments.....	..do.....	532.3	65.0	191.2	19.7
282130	Thermoplastic resins including modified resins.....	..do.....	79.8	12.8	23.4	3.2
282140	Thermosetting resins.....	..do.....			3.2	.6
	Tire cord and tire fabric:					
229601	Cotton cord.....	..do.....	14.5	13.9	2.2	1.6
229602	Rayon cord.....	..do.....	102.1	73.5	105.4	65.4
229603	Nylon cord.....	..do.....	285.2	291.4	231.0	228.7
229605	Polyester cord.....	..do.....	223.5	204.0	(NA)	(NA)
229606	Fiberglass fabrics.....	..do.....	36.7	35.7	(NA)	(NA)
229609	Chafer and other tire fabrics.....	..do.....	27.9	32.8	59.2	57.7
	Other fabrics:					
220311	Cotton.....	..do.....	(1)	(1)	10.1	6.4
220312	Rayon.....	..do.....			22.0	13.6
220313	Nylon.....	..do.....	(2)	(2)	20.8	21.6
220315	Polyester.....	..do.....			(NA)	(NA)
220319	Other.....	..do.....			(D)	(D)
342986	Hose fittings and couplings.....	..do.....	(2)	(2)	(D)	(D)
331017	Steel wire.....	1,000 s. tons.	121.4	65.0	68.9	27.0
260091	Paper and paperboard containers and shipping sacks, including corrugated boxes.....	..do.....	(X)	6.6	(X)	8.6
970099	All other materials and components, parts, containers, and supplies consumed.....	..do.....	(X)	177.8	(X)	197.1
973000	Materials, containers, supplies, n.s.k. ³.....	..do.....	(X)	24.2	(X)	26.0
Unit of measure			1972			
			Quantity	Delivered cost		
				(million dollars)		
INDUSTRY 3021.--RUBBER AND PLASTICS FOOTWEAR						
	Materials, containers, and supplies, total.....				(X)	165.0
	Natural rubber:					
084913	Latex (dry solids content).....	1,000 l. tons.....		1.6		1.0
084915	Dry.....	..do.....		12.6		5.5
	Synthetic rubber:					
282201	S-type butadiene-styrene copolymers.....	..do.....		15.5		7.3
282207	Polyisoprene type.....	..do.....		2.6		1.3
282215	Ethylene-propylene type.....	..do.....		(4)		(4)
282204	Butyl type.....	..do.....		-		-
282205	Neoprene.....	..do.....		.4		.3
282206	N-type (butadiene-acrylonitrile).....	..do.....		.2		.2
282211	Stereo polybutadiene elastomers (solution-polymerized polybutadiene).....	..do.....		41.8		41.1
282208	Polyurethane.....	..do.....				
282209	Other elastomers.....	..do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967--Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3021.--RUBBER AND PLASTICS FOOTWEAR--Continued			
	Materials, containers, and supplies--Continued			
303101	Reclaimed rubber (excluding "mud" and crumb or ground scrap).....	1,000 l. tons.....	.3	#1
306980	Rubber compounds and mixtures purchased (dry rubber solids content).....	...do.....	(NA)	(⁵)
286933	Rubber processing chemicals.....	...do.....	(X)	4.5
286935	Plasticizers.....	Million lb.....	22.2	2.6
289501	Carbon black.....	...do.....	.8	.1
281600	Inorganic pigments.....	...do.....	29.0	1.8
282130	Thermoplastic resins including modified resins.....	...do.....	}	17.7
282140	Thermosetting resins.....	...do.....		
	Other fabrics:			
220311	Cotton.....	...do.....	37.2	34.0
220312	Rayon.....	...do.....	(⁶)	(⁶)
220313	Nylon.....	...do.....	.6	1.0
220315	Polyester.....	...do.....	(⁶)	(⁶)
220319	Other.....	...do.....	66.9	64.8
260091	Paper and paperboard containers and shipping sacks, including corrugated boxes.....	.....	(X)	6.9
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	599.7
973000	Materials, containers, supplies, n.s.k. ³.....	.....	(X)	15.1
	INDUSTRIES 3031. AND 3069.--RECLAIMED RUBBER, AND FABRICATED RUBBER PRODUCTS, N.E.C.			
	Materials, containers, and supplies, total ⁷.....	.....	(X)	1,114.5
	Natural rubber:			
084913	Latex (dry solids content).....	1,000 l. tons.....	52.3	30.2
084915	Dry.....	...do.....	72.0	31.7
	Synthetic rubber:			
282201	S-type butadiene-styrene copolymers.....	...do.....	200.0	84.7
282207	Polyisoprene type.....	...do.....	14.5	7.5
282215	Ethylene-propylene type.....	...do.....	18.3	11.6
282204	Butyl type.....	...do.....	19.0	12.7
282205	Neoprene.....	...do.....	49.2	45.2
282206	N-type (butadiene-acrylonitrile).....	...do.....	21.5	23.3
282211	Stereo polybutadiene elastomers (solution-polymerized polybutadiene).....	...do.....	7.3	3.2
282208	Polyurethane.....	...do.....	5.2	9.9
282209	Other elastomers.....	...do.....	13.4	18.9
303101	Reclaimed rubber (excluding "mud" and crumb or ground scrap).....	...do.....	32.3	6.1
306980	Rubber compounds and mixtures purchased (dry rubber solids content).....	...do.....	80.7	41.5
286933	Rubber processing chemicals.....	...do.....	(X)	61.4
286935	Plasticizers.....	Million lb.....	161.7	20.4
289501	Carbon black.....	...do.....	261.8	23.2
281600	Inorganic pigments.....	...do.....	357.1	21.7
282130	Thermoplastic resins, including modified resins.....	...do.....	151.5	28.4
282140	Thermosetting resins.....	...do.....	7.3	2.2
	Tire cord and tire fabric:			
229601	Cotton cord.....	...do.....	.2	.2
229602	Rayon cord.....	...do.....	.5	.4
229603	Nylon cord.....	...do.....	.4	.4
229605	Polyester cord.....	...do.....	.2	.1
229606	Fiberglass fabrics.....	...do.....	}	.3
229609	Chafer and other tire fabrics.....	...do.....		
	Other fabrics:			
220311	Cotton.....	...do.....	29.3	19.2
220312	Rayon.....	...do.....	4.3	1.5
220313	Nylon.....	...do.....	12.7	17.0
220315	Polyester.....	...do.....	2.4	2.4
220319	Other.....	...do.....	7.0	8.5
342986	Hose fittings and couplings.....	.....	(X)	5.2
331017	Steel wire.....	1,000 s. tons.....	10.4	2.1
260091	Paper and paperboard containers and shipping sacks, including corrugated boxes.....	.....	(X)	27.4
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	406.0
973000	Materials, containers, supplies, n.s.k. ³.....	.....	(X)	140.0

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3041.--RUBBER AND PLASTICS HOSE AND BELTING			
	Materials, containers, and supplies, total ¹		(X)	323.4
	Natural rubber:			
084913	Latex (dry solids content).....	1,000 l. tons.....	1.1	.6
084915	Dry.....	..do.....	8.8	3.8
	Synthetic rubber:			
282201	S-type butadiene-styrene copolymers.....	..do.....	23.8	9.5
282207	Polyisoprene type.....	..do.....	3.6	1.6
282215	Ethylene-propylene type.....	..do.....	9.4	6.0
282204	Butyl type.....	..do.....	1.1	.7
282205	Neoprene.....	..do.....	30.9	28.6
282206	N-type (butadiene-acrylonitrile).....	..do.....	12.0	13.1
282211	Stereo polybutadiene elastomers (solution-polymerized polybutadiene).....	..do.....	3.3	2.1
282208	Polyurethane.....	..do.....	.8	.8
282209	Other elastomers.....	..do.....	3.6	12.8
303101	Reclaimed rubber (excluding "mud" and crumb or ground scrap).....	..do.....	12.9	2.6
306980	Rubber compounds and mixtures purchased (dry rubber solids content).....	..do.....	29.9	15.7
286733	Rubber processing chemicals.....		(X)	14.6
286935	Plasticizers.....	Million lb.....	60.1	6.8
289501	Carbon black.....	..do.....	127.5	10.7
281600	Inorganic pigments.....	..do.....	53.7	4.4
282130	Thermoplastic resins, including modified resins.....	..do.....	89.8	19.8
282140	Thermosetting resins.....	..do.....	8.0	1.0
	Tire cord and tire fabric:			
229601	Cotton cord.....	..do.....	.4	.4
229602	Rayon cord.....	..do.....	.8	.5
229603	Nylon cord.....	..do.....	.2	.2
229605	Polyester cord.....	..do.....	(D)	(D)
229606	Fiberglass fabrics.....	..do.....	(D)	(D)
229609	Chafer and other tire fabrics.....	..do.....	(D)	(D)
	Other fabrics:			
220311	Cotton.....	..do.....	35.8	28.2
220312	Rayon.....	..do.....	24.4	17.3
220313	Nylon.....	..do.....	12.9	14.0
220315	Polyester.....	..do.....	14.4	13.4
220319	Other.....	..do.....	3.0	3.0
342986	Hose fittings and couplings.....		(X)	12.6
331017	Steel wire.....	1,000 s. tons.....	24.0	13.6
260091	Paper and paperboard containers and shipping sacks, including corrugated boxes.....		(X)	6.0
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	55.3
973000	Materials, containers, supplies, n.s.k. ³		(X)	12.3
	INDUSTRY 3079.--MISCELLANEOUS PLASTICS PRODUCTS			
	Materials, containers, and supplies, total.....		(X)	4,329.2
282130	Thermoplastic resins, including modified resins.....	Million lb.....	9,322.9	1,661.0
282140	Thermosetting resins.....	..do.....	1,352.0	315.6
307911	Unsupported plastics film and sheeting.....	..do.....	290.4	124.3
307912	Plastics rods, tubes, and other shapes.....	..do.....	(S)	48.3
286935	Plasticizers.....	..do.....	278.8	47.6
322931	Glass fiber, roving, mats, etc.....	..do.....	146.6	69.9
220234	Cotton fabrics.....	Million linear yards..	74.7	21.5
220239	Other textile fabrics.....	..do.....	(X)	27.3
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	1,235.1
976000	Materials, containers, and supplies, n.s.k. ³		(X)	778.6

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(S) Withheld because the estimates did not meet publication standards.

¹Code 220311 included in code 229601 for 1972.²Included in code 970099 for 1972.³This item represents the total cost of materials for establishments that did not report detailed materials data.⁴Data for code 282215 combined with codes 282208, 282209, and 282211.⁵Data for code 306980 included in code 970099.⁶Data for codes 220312 and 220315 included in code 220319.⁷The materials data for industries 3031 and 3069 are combined to avoid disclosing figures for individual companies.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3011.--TIRES AND INNER TUBES					
	Purchased fuels and electric energy.....		(X)	69.9	(X)	40.7
	Purchased fuels, total.....		(X)	29.6	(X)	16.2
121005	Coal.....	1,000 s. tons....	824.3	7.4	1,266.2	8.1
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,769.2	7.3	584.0	1.6
291141	Distillate.....	...do.....	1,220.9	5.1	218.8	.6
291151	Residual.....	...do.....	548.3	2.2	365.2	1.0
131300	Natural gas.....	Billion ft³.....	28.9	12.7	15.6	5.4
960011	Other fuels.....		(X)	.1	(X)	.1
975000	Fuels, n.s.k.....		(X)	2.0	(X)	1.0
960012	Purchased electric energy.....	Million kWh.....	4,071.4	39.4	2,674.5	24.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	514.6	-
	Total energy used for heat and power.....	Bil. kWh equiv....	23.7	-	20.5	(NA)
	INDUSTRY 3069.--FABRICATED RUBBER PRODUCTS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	56.2	(X)	(NA)
	Purchased fuels, total.....		(X)	24.9	(X)	(NA)
121005	Coal.....	1,000 s. tons....	324.7	3.7	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,925.4	8.4	(NA)	(NA)
291141	Distillate.....	...do.....	682.7	3.3	(NA)	(NA)
291151	Residual.....	...do.....	1,242.7	5.1	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	19.6	10.4	(NA)	(NA)
960011	Other fuels.....		(X)	.9	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	2,616.6	31.5	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	15.7	-	(NA)	(NA)
	INDUSTRY 3079.--MISCELLANEOUS PLASTICS PRODUCTS					
	Purchased fuels and electric energy.....		(X)	134.0	(X)	(NA)
	Purchased fuels, total.....		(X)	33.0	(X)	(NA)
121005	Coal.....	1,000 s. tons....	76.6	1.0	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,377.7	6.3	(NA)	(NA)
291141	Distillate.....	...do.....	873.4	4.0	(NA)	(NA)
291151	Residual.....	...do.....	504.2	2.2	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	27.0	16.1	(NA)	(NA)
960011	Other fuels.....		(X)	1.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	8.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	8,171.8	100.7	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	25.6	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.

MAJOR GROUP 31

Leather and Leather Products

- 31A Tanning, industrial leather goods, and shoes
- 31B Leather gloves, luggage, and miscellaneous leather goods

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather converters are also included.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees ¹		Production workers			Value added by manufacture ²	Cost of materials ³	Value of industry shipments ³	Capital expenditures, new ⁴
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: ⁵											
1972.....	3,316	1,720	285.5	1,706.2	240.4	449.1	1,230.8	2,917.2	2,895.4	5,769.5	74.5
1967.....	3,753	2,004	336.6	1,509.2	293.3	549.2	1,147.0	2,626.5	2,540.9	5,169.0	62.1
1963.....	4,120	2,114	335.1	1,278.1	292.3	543.1	982.1	2,078.6	2,127.8	4,209.6	34.6
1958.....	4,617	2,359	358.5	1,192.2	310.1	566.0	912.3	1,898.0	(NA)	3,896.2	31.8
1954.....	(NA)	(NA)	365.3	1,065.2	321.2	586.9	833.7	1,640.8	(NA)	(NA)	29.0
Administrative and auxiliary units:											
1972 ⁶	115	63	12.1	116.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 ⁶	68	37	2.9	50.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 ⁶	73	41	7.6	50.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 ⁶	68	32	9.3	46.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 ⁶	(NA)	(NA)	8.8	37.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	3,201	1,657	273.4	1,589.3	240.4	449.1	1,230.8	2,917.2	2,895.4	5,769.5	74.5
1967.....	3,685	1,967	328.7	1,458.8	293.3	549.2	1,147.0	2,626.5	2,540.9	5,169.0	62.1
1963.....	4,047	2,073	327.5	1,227.8	292.3	543.1	982.1	2,078.6	2,127.8	4,209.6	34.6
1958.....	4,549	2,227	349.2	1,146.0	310.1	566.0	912.3	1,898.0	(NA)	3,896.2	31.8
1954.....	4,845	2,267	356.6	1,027.3	321.2	586.9	833.7	1,640.8	(NA)	(NA)	28.1
Operating manufacturing establishments:											
1971 ⁷	(NA)	(NA)	273.8	1,500.6	240.4	441.8	1,155.0	2,760.8	2,437.4	5,218.4	69.2
1970 ⁷	(NA)	(NA)	295.8	1,526.0	261.0	479.6	1,183.7	2,819.7	2,468.6	5,288.4	62.8
1969 ⁷	(NA)	(NA)	326.7	1,592.9	290.7	537.9	1,252.3	2,898.0	2,594.1	5,463.9	64.2
1968 ⁷	(NA)	(NA)	334.1	1,582.1	298.2	561.4	1,252.7	2,911.9	2,604.1	5,485.5	78.8
1966 ⁷	(NA)	(NA)	341.1	1,426.0	303.1	574.4	1,125.3	2,480.8	2,590.3	5,032.6	61.5
1965 ⁷	(NA)	(NA)	335.7	1,348.3	299.2	562.7	1,065.3	2,322.0	2,342.0	4,640.5	46.5
1964 ⁷	(NA)	(NA)	326.7	1,285.9	291.9	553.4	1,022.1	2,264.7	2,173.3	4,414.4	37.7
1962 ⁷	(NA)	(NA)	345.6	1,255.5	307.6	569.1	1,000.3	2,101.6	2,193.0	4,307.4	35.7
1961 ⁷	(NA)	(NA)	350.7	1,224.5	311.7	568.0	969.6	2,040.8	2,136.0	4,186.3	34.7
1960 ⁷	(NA)	(NA)	357.7	1,227.3	317.3	581.5	971.6	2,043.6	(NA)	(NA)	34.7
1959 ⁷	(NA)	(NA)	363.3	1,246.2	323.7	601.0	992.6	2,120.7	(NA)	(NA)	34.1
1957 ⁷	(NA)	(NA)	361.9	1,156.7	322.8	589.5	938.5	1,891.6	(NA)	(NA)	31.7
1956 ⁷	(NA)	(NA)	366.8	1,149.2	328.8	606.7	938.6	1,881.6	(NA)	(NA)	36.8
1955 ⁷	(NA)	(NA)	366.2	1,102.2	329.5	613.4	895.6	1,778.1	(NA)	(NA)	37.4
1953 ⁷	(NA)	(NA)	375.4	1,098.8	338.4	629.5	896.5	1,711.1	(NA)	(NA)	24.7
1952 ⁷	5,012	(NA)	361.4	1,015.5	324.0	605.4	834.1	1,597.3	(NA)	(NA)	18.7
1951 ⁷	4,883	(NA)	353.8	944.6	317.6	575.6	768.0	1,475.5	(NA)	(NA)	22.4
1950 ⁷	4,903	(NA)	385.1	949.3	341.7	629.3	773.4	1,498.8	(NA)	(NA)	25.8
1949 ⁷	(NA)	(NA)	375.2	891.7	337.5	609.6	721.9	1,386.6	(NA)	(NA)	29.6
1947 ⁷	5,308	(NA)	383.3	873.7	348.6	677.0	725.3	1,533.0	(NA)	(NA)	31.3
1939.....	3,505	(NA)	(NA)	(NA)	327.2	(NA)	293.9	582.9	(NA)	(NA)	(NA)
1937.....	3,249	(NA)	(NA)	(NA)	328.6	(NA)	308.0	583.8	(NA)	(NA)	(NA)
1935.....	3,506	(NA)	336.1	333.4	310.8	(NA)	279.7	530.1	(NA)	(NA)	(NA)
1933.....	3,265	(NA)	302.0	254.1	282.0	(NA)	222.5	452.0	(NA)	(NA)	(NA)
1931.....	3,702	(NA)	(NA)	(NA)	272.8	(NA)	262.1	523.7	(NA)	(NA)	(NA)
1929.....	4,285	(NA)	351.2	443.8	318.5	(NA)	359.5	774.2	(NA)	(NA)	(NA)
1927.....	4,372	(NA)	350.4	443.8	316.1	(NA)	364.5	780.8	(NA)	(NA)	(NA)
1925.....	4,352	(NA)	(NA)	(NA)	314.1	(NA)	355.4	751.0	(NA)	(NA)	(NA)
1923.....	4,981	(NA)	(NA)	(NA)	345.7	(NA)	389.7	797.3	(NA)	(NA)	(NA)
1921.....	4,827	(NA)	313.9	385.2	280.4	(NA)	314.7	610.4	(NA)	(NA)	(NA)
1919.....	6,423	(NA)	394.1	469.3	350.1	(NA)	364.0	898.3	(NA)	(NA)	(NA)
1914.....	6,798	(NA)	340.7	214.3	308.2	(NA)	169.9	353.3	(NA)	(NA)	(NA)
1909.....	5,785	(NA)	340.0	191.0	311.3	(NA)	155.8	325.2	(NA)	(NA)	(NA)
1904.....	5,476	(NA)	284.3	141.0	266.0	(NA)	121.4	246.1	(NA)	(NA)	(NA)
1899.....	5,785	(NA)	265.2	117.4	249.9	(NA)	102.0	186.9	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

²For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

³The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

⁴The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

⁵See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

⁶In addition to data for operating establishments, 1954, 1958, 1963, 1967, and 1972 data are shown for manufacturers' central administrative offices and auxiliary units. Similar data are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these establishments are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and prior to 1949.

⁷These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volume for this period.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ³	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
31	LEATHER AND LEATHER PRODUCTS . . .	3 201	1 657	273.4	1 589.3	240.4	449.1	1 230.8	2 917.2	2 895.4	5 769.5	74.5	328.7	2 626.5
	NORTHEAST REGION	1 812	968	133.4	779.2	116.4	210.8	584.0	1 346.0	1 368.2	2 713.8	(D)	166.1	1 398.1
	NEW ENGLAND DIVISION	654	386	65.2	388.9	56.6	101.2	286.9	634.4	710.0	1 366.6	19.3	97.0	726.9
	MAINE	117	90	19.8	110.3	17.6	31.3	84.4	182.4	201.2	385.0	6.0	28.0	197.9
	NEW HAMPSHIRE	89	63	12.8	70.5	11.4	20.1	55.5	123.1	121.0	245.0	3.3	19.6	132.5
	VERMONT	7	5	.6	3.1	.5	.9	2.4	3.6	8.0	11.6	.1	.6	4.1
	MASSACHUSETTS	391	200	28.5	183.4	24.2	43.4	130.3	299.6	345.4	646.1	9.0	45.2	360.9
	RHODE ISLAND	25	14	1.9	11.0	1.6	2.7	6.8	28.2	22.4	49.6	.7	1.5	15.9
	CONNECTICUT	25	14	1.7	10.6	1.4	2.7	7.5	17.5	11.8	29.3	.2	2.2	15.6
	MIDDLE ATLANTIC DIVISION	1 158	582	68.2	390.3	59.8	109.6	297.1	691.6	658.2	1 347.2	(D)	89.1	671.3
	NEW YORK	820	366	35.8	206.9	31.3	56.6	155.1	359.8	336.2	691.0	7.9	48.2	376.1
	NEW JERSEY	142	72	9.1	58.5	7.8	14.0	40.6	105.3	107.8	210.1	2.0	11.9	97.8
	PENNSYLVANIA	196	144	23.3	125.0	20.7	38.9	101.4	226.5	214.3	446.1	(D)	29.0	195.4
	NORTH CENTRAL REGION	547	321	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	EAST NORTH CENTRAL DIVISION	355	193	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	44.7	410.4
	OHIO	64	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.7	61.9
	INDIANA	29	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	24.1
	ILLINOIS	121	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14.0	132.6
	MICHIGAN	30	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	47.9
	WISCONSIN	111	78	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.6	143.9
	WEST NORTH CENTRAL DIVISION	192	128	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	MINNESOTA	22	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	IOWA	19	10	.8	4.6	.7	1.2	3.0	8.6	11.5	20.0	.2	CC	(D)
	MISSOURI	132	99	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	KANSAS	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	SOUTH REGION	530	280	63.5	332.5	57.6	110.5	276.4	633.1	633.7	1 246.6	15.4	57.7	455.7
	SOUTH ATLANTIC DIVISION	214	108	21.3	106.5	19.1	36.3	87.0	183.2	215.4	394.9	5.2	22.0	157.9
	DELAWARE	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	18.6
	MARYLAND	22	15	2.2	12.2	1.9	3.7	9.3	25.0	21.4	46.6	.3	2.9	24.2
	VIRGINIA	24	17	4.1	18.4	3.8	7.3	16.8	27.8	33.4	61.8	.6	5.0	28.1
	WEST VIRGINIA	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	10.0
	NORTH CAROLINA	44	16	3.6	19.6	3.0	5.8	14.4	35.4	47.2	82.2	.5	3.3	27.6
	GEORGIA	29	18	4.4	19.6	4.0	7.3	16.5	34.4	40.2	73.7	.9	4.6	32.2
	FLORIDA	71	28	3.5	17.1	3.1	6.2	13.6	26.8	21.5	47.4	2.1	2.6	16.1
	EAST SOUTH CENTRAL DIVISION	133	96	27.9	156.5	25.5	50.0	132.4	310.7	309.0	606.0	6.7	FF	(D)
	KENTUCKY	24	18	5.0	26.3	4.6	9.1	23.3	56.7	51.4	106.9	1.2	FF	(D)
	TENNESSEE	90	68	19.4	110.7	17.6	34.3	92.1	217.3	215.9	421.5	5.3	16.9	142.5
	ALABAMA	7	4	1.3	6.7	1.2	2.3	5.7	11.8	16.7	27.7	(2)	CC	(D)
	MISSISSIPPI	12	6	2.3	12.9	2.1	4.3	11.3	25.0	25.0	50.0	.3	2.6	25.7
	WEST SOUTH CENTRAL DIVISION	183	76	14.3	69.4	13.0	24.3	57.0	139.1	109.3	245.9	3.6	FF	(D)
	ARKANSAS	31	28	8.9	42.2	8.3	15.4	36.4	82.5	60.2	141.8	1.3	FF	(D)
	LOUISIANA	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA	18	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	TEXAS	125	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WEST REGION	312	88	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	MOUNTAIN DIVISION	59	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	COLORADO	21	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	NEW MEXICO	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA	17	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	253	68	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WASHINGTON	14	3	.3	2.0	.3	.5	1.3	4.4	2.2	6.5	.1	BB	(D)
	OREGON	24	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.7
	CALIFORNIA	207	60	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
311	LEATHER TANNING AND FINISHING . . .	517	223	25.7	200.0	22.1	41.9	151.3	368.3	708.0	1 059.5	16.3	(NA)	(NA)
	NORTHEAST REGION	324	132	13.3	102.2	11.3	20.8	74.7	183.2	366.6	545.6	7.5	16.4	167.4
	NEW ENGLAND DIVISION	163	78	7.4	57.3	6.2	11.8	41.2	99.0	219.6	316.3	4.2	(NA)	(NA)
	MAINE	15	10	1.9	14.0	1.7	3.3	10.9	25.5	64.1	90.0	1.6	(NA)	(NA)
	NEW HAMPSHIRE	19	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VERMONT	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	128	53	4.0	32.2	3.2	6.0	21.8	55.3	118.7	172.4	1.9	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	161	54	5.9	44.8	5.1	9.0	33.5	84.2	146.9	229.3	3.2	(NA)	(NA)
	NEW YORK	98	26	2.4	17.5	2.1	3.8	13.7	27.8	52.6	79.6	1.3	(NA)	(NA)
	NEW JERSEY	43	15	2.0	13.4	1.7	2.5	9.0	31.0	45.6	74.6	1.0	(NA)	(NA)
	PENNSYLVANIA	20	13	1.6	14.0	1.3	2.7	10.9	25.4	48.8	75.0	.9	(NA)	(NA)
	NORTH CENTRAL REGION	84	48	7.0	62.2	5.9	11.9	46.8	113.2	196.8	300.9	5.8	9.0	102.3
	EAST NORTH CENTRAL DIVISION	62	39	6.1	54.8	5.2	10.6	41.3	103.3	170.0	263.5	4.9	(NA)	(NA)
	OHIO	8	4	.2	1.0	.2	.3	.7	2.2	7.9	9.9	(2)	(NA)	(NA)
	ILLINOIS	19	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MICHIGAN	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN	22	19	3.4	31.1	2.8	5.7	23.1	59.5	100.5	153.5	2.5	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	22	9	.9	7.4	.7	1.4	5.5	9.9	26.8	37.3	.8	(NA)	(NA)
	MINNESOTA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	IOWA	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	59	27	3.7	23.2	3.2	6.5	19.1	47.1	98.9	144.0	2.1	4.6	40.6
	SOUTH ATLANTIC DIVISION	27	14	2.0	13.2	1.8	3.6	11.0	24.9	48.4	71.9	1.0	(NA)	(NA)
	DELAWARE	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	5	2	.2	1.1	.2	.3	.9	2.8	3.8	6.0	(D)	(NA)	(NA)
	GEORGIA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
311	LEATHER TANNING AND FINISHING-- CONTINUED													
	SOUTH REGION--CONTINUED													
	EAST SOUTH CENTRAL DIVISION. . . .	12	10	1.4	8.8	1.2	2.4	7.0	20.3	49.0	68.7	1.0	(NA)	(NA)
	KENTUCKY	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE.	8	7	.9	5.9	.7	1.5	4.5	14.0	39.4	53.2	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	20	3	.2	1.3	.2	.5	1.1	1.9	1.5	3.4	.1	(NA)	(NA)
	TEXAS.	15	3	.2	1.2	.2	.5	1.0	1.8	1.3	3.1	(Z)	(NA)	(NA)
	WEST REGION.	50	16	1.7	12.4	1.6	2.5	10.7	24.8	45.8	69.1	.9	.8	9.1
	PACIFIC DIVISION	42	14	1.6	11.9	1.5	2.4	10.3	23.8	45.0	67.3	(D)	(NA)	(NA)
	CALIFORNIA	33	13	1.6	11.3	1.5	2.3	9.9	22.8	43.5	64.9	(D)	(NA)	(NA)
313	BOOT, SHOE CUT STOCK, FINDINGS . .	248	121	8.7	50.1	7.6	14.0	37.1	86.2	120.5	206.5	2.9	(NA)	(NA)
	NORTHEAST REGION	181	88	6.0	36.2	5.1	9.4	25.7	62.0	81.8	144.0	2.1	9.7	77.4
	NEW ENGLAND DIVISION	128	67	4.7	29.1	4.0	7.2	20.1	49.6	62.9	112.4	1.6	(NA)	(NA)
	MAINE.	16	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE.	18	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS.	89	45	2.8	17.7	2.3	4.1	12.0	30.7	44.2	74.8	.7	(NA)	(NA)
	RHODE ISLAND	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	53	21	1.3	7.1	1.1	2.2	5.7	12.4	18.9	31.6	.5	(NA)	(NA)
	NEW YORK	31	12	.6	3.3	.5	1.0	2.6	6.1	8.9	15.1	.1	(NA)	(NA)
	PENNSYLVANIA	19	9	.7	3.7	.6	1.2	3.0	6.1	9.8	16.2	.4	(NA)	(NA)
	NORTH CENTRAL REGION	44	24	2.2	11.2	2.0	3.8	9.3	19.2	29.8	49.0	.6	3.0	23.4
	EAST NORTH CENTRAL DIVISION. . . .	14	5	.4	2.4	.4	.7	1.9	3.8	6.7	10.5	.1	(NA)	(NA)
	WISCONSIN.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	30	19	1.8	8.8	1.7	3.1	7.4	15.4	23.1	38.5	.5	(NA)	(NA)
	MISSOURI	30	19	1.8	8.8	1.7	3.1	7.4	15.4	23.1	38.5	.5	(NA)	(NA)
	SOUTH REGION	15	7	.4	1.8	.3	.6	1.5	3.7	7.7	11.1	.1	.9	6.6
	SOUTH ATLANTIC DIVISION.	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION.	8	2	.2	.9	.1	.3	.6	1.4	1.1	2.5	.1	.2	1.7
	PACIFIC DIVISION	8	2	.2	.9	.1	.3	.6	1.4	1.1	2.5	.1	(NA)	(NA)
	CALIFORNIA	8	2	.2	.9	.1	.3	.6	1.4	1.1	2.5	.1	(NA)	(NA)
314	FOOTWEAR, EXCEPT RUBBER.	917	712	176.2	972.7	157.1	294.5	781.4	1 796.1	1 489.0	3 272.2	37.1	(NA)	(NA)
	NORTHEAST REGION	487	377	78.8	436.2	69.8	125.5	338.3	729.0	601.8	1 340.9	19.0	115.7	613.2
	NEW ENGLAND DIVISION	250	197	46.9	263.6	41.5	73.1	201.1	427.0	366.2	800.1	12.0	73.3	513.9
	MAINE.	83	68	16.7	89.2	14.9	26.1	68.7	145.0	126.6	272.7	4.0	24.4	168.3
	NEW HAMPSHIRE.	50	40	10.7	56.2	9.5	16.5	44.5	97.8	79.9	179.5	2.3	17.1	112.2
	MASSACHUSETTS.	104	80	18.9	115.2	16.5	29.5	85.6	178.7	155.6	338.1	5.7	30.0	221.1
	CONNECTICUT.	10	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	MIDDLE ATLANTIC DIVISION	237	180	31.9	172.6	28.4	52.3	137.3	301.9	235.5	540.6	7.0	42.3	299.4
	NEW YORK	126	81	12.4	70.8	10.9	19.6	54.1	121.7	94.3	214.6	2.9	16.6	133.0
	NEW JERSEY	15	12	1.2	9.7	1.1	2.0	6.5	13.5	10.5	23.8	.2	2.3	16.1
	PENNSYLVANIA	96	87	18.3	92.1	16.4	30.8	76.6	166.7	130.8	302.4	3.9	23.4	150.3
	NORTH CENTRAL REGION	179	152	45.0	261.7	39.5	77.1	212.1	553.4	435.2	979.4	6.9	49.5	444.1
	EAST NORTH CENTRAL DIVISION. . . .	107	88	25.1	152.2	21.2	42.8	116.8	312.8	255.0	559.1	4.1	27.7	250.0
	OHIO	20	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.4	45.4
	INDIANA.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	ILLINOIS	26	22	6.7	45.5	6.0	11.2	34.2	82.0	58.0	139.1	1.7	FF	(D)
	MICHIGAN	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WISCONSIN.	48	41	9.3	52.6	7.2	16.2	39.6	104.4	96.6	198.5	1.1	8.7	72.4
	WEST NORTH CENTRAL DIVISION. . . .	72	64	19.9	109.5	18.2	34.2	95.3	240.6	180.2	420.3	2.8	21.8	194.0
	MINNESOTA.	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	MISSOURI	60	55	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.4	179.4
	SOUTH REGION	194	156	49.0	255.3	44.8	86.2	216.5	481.8	426.4	893.4	10.5	43.2	342.1
	SOUTH ATLANTIC DIVISION.	76	56	14.7	69.4	13.3	25.5	58.8	116.4	124.7	240.3	3.5	13.7	96.1
	MARYLAND	11	8	1.6	9.3	1.4	2.7	6.9	16.9	13.4	30.5	.2	1.9	17.4
	VIRGINIA	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WEST VIRGINIA.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	NORTH CAROLINA	11	9	3.0	15.9	2.5	4.8	11.9	27.3	37.5	65.3	.4	2.8	22.7
	GEORGIA.	12	11	3.4	15.4	3.1	5.8	13.3	27.6	30.8	57.6	.7	3.6	24.8
	FLORIDA.	25	12	1.9	9.6	1.7	3.4	7.7	13.9	10.5	23.9	1.8	EE	(D)
	EAST SOUTH CENTRAL DIVISION. . . .	61	59	23.3	132.1	21.5	42.1	113.3	260.7	223.1	471.9	4.7	19.7	177.8
	KENTUCKY	15	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	TENNESSEE	39	38	15.8	91.8	14.5	28.2	77.4	178.8	146.6	316.0	3.6	13.4	112.4
	ALABAMA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	MISSISSIPPI.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST SOUTH CENTRAL DIVISION. . . .	57	41	11.0	53.7	10.0	18.7	44.5	104.7	78.7	181.2	2.3	9.8	66.2
	ARKANSAS	25	24	8.2	39.7	7.7	14.2	34.0	76.4	55.2	130.8	1.2	FF	(D)
	TEXAS.	32	17	2.7	14.0	2.3	4.5	10.5	28.3	23.5	50.4	1.0	EE	(D)
	WEST REGION.	57	27	3.5	10.6	3.0	5.7	14.4	31.9	25.7	58.6	.8	2.7	20.4
	MOUNTAIN DIVISION.	8	4	.3	1.3	.3	.5	1.1	2.4	1.9	4.2	(D)	(NA)	(NA)
	NEW MEXICO	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	49	23	3.2	18.3	2.8	5.3	13.3	29.5	23.8	54.4	(D)	2.6	19.5
	CALIFORNIA	35	19	3.0	17.0	2.6	4.9	12.3	27.3	22.3	50.7	(D)	2.4	16.1

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
315	LEATHER GLOVES AND MITTENS	106	60	4.9	27.1	4.3	7.6	17.1	43.0	55.0	98.2	.5	(NA)	(NA)
	NORTHEAST REGION	42	19	1.6	7.3	1.3	2.2	5.3	15.9	26.4	41.8	.1	3.0	10.0
	MIDDLE ATLANTIC DIVISION	40	17	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW YORK	38	15	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NORTH CENTRAL REGION	38	26	2.0	9.2	1.6	3.1	7.0	13.3	17.1	31.1	.3	2.4	12.4
	EAST NORTH CENTRAL DIVISION	30	19	1.5	7.1	1.4	2.4	5.5	9.3	12.5	22.6	.3	(NA)	(NA)
	INDIANA	4	3	.2	1.1	.2	.4	.8	1.5	1.6	3.1	(Z)	(NA)	(NA)
	ILLINOIS	6	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WISCONSIN	16	10	.7	3.2	.6	1.1	2.4	4.2	6.4	10.6	(Z)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	8	7	.5	2.1	.4	.7	1.5	4.0	4.7	8.5	(Z)	(NA)	(NA)
	IOA	4	3	.2	1.1	.2	.3	.7	2.6	2.9	5.3	(0)	(NA)	(NA)
	MISSOURI	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION	12	12	1.2	4.6	1.1	2.1	4.4	12.6	10.2	22.7	.1	.6	4.0
	EAST SOUTH CENTRAL DIVISION	4	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	7	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ARKANSAS	4	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	LOUISIANA	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST REGION	14	3	.2	.7	.1	.2	.5	1.2	1.3	2.5	(Z)	.3	2.0
316	LUGGAGE	277	130	17.1	106.8	14.3	26.4	75.6	194.1	171.9	364.5	8.9	(NA)	(NA)
	NORTHEAST REGION	145	73	7.3	41.5	6.1	10.9	28.7	81.6	68.6	149.4	1.6	9.4	81.7
	NEW ENGLAND DIVISION	19	8	1.6	9.2	1.3	2.3	5.7	25.6	20.6	45.5	.3	(NA)	(NA)
	NEW HAMPSHIRE	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS	12	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	RHODE ISLAND	5	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	126	65	5.7	32.3	4.8	8.6	23.0	56.0	48.0	103.9	1.5	(NA)	(NA)
	NEW YORK	98	42	3.4	19.0	2.9	5.1	13.9	35.5	27.0	62.2	1.1	(NA)	(NA)
	NEW JERSEY	20	11	1.4	8.5	1.1	2.1	5.9	11.5	11.3	23.2	.1	(NA)	(NA)
	PENNSYLVANIA	18	12	1.0	4.8	.8	1.4	3.3	9.0	9.7	18.4	.3	(NA)	(NA)
	NORTH CENTRAL REGION	73	26	3.3	18.2	3.0	5.7	14.5	28.6	41.6	69.1	(0)	3.4	21.0
	EAST NORTH CENTRAL DIVISION	62	20	1.7	9.5	1.4	2.6	6.8	16.5	13.0	28.9	(0)	(NA)	(NA)
	OHIO	9	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	INDIANA	7	5	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ILLINOIS	31	8	.8	4.9	.7	1.2	3.4	8.5	6.5	14.5	.2	(NA)	(NA)
	WISCONSIN	12	3	.2	1.3	.2	.4	.9	1.8	2.5	4.3	(Z)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	11	8	1.7	8.7	1.6	3.0	7.6	12.1	28.6	40.2	(0)	(NA)	(NA)
	MINNESOTA	2	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MISSOURI	6	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION	28	17	3.0	15.7	2.5	4.6	11.1	26.8	29.9	57.9	.5	FF	(0)
	SOUTH ATLANTIC DIVISION	13	9	1.8	9.8	1.5	2.7	7.0	17.8	16.9	34.5	.3	(NA)	(NA)
	DELAWARE	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MARYLAND	3	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	VIRGINIA	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	FLORIDA	5	3	.2	1.1	.2	.4	.9	1.7	2.0	3.8	.1	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	7	4	.9	4.3	.7	1.4	2.9	6.6	11.2	19.1	.1	(NA)	(NA)
	TENNESSEE	6	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MISSISSIPPI	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	8	4	.3	1.6	.3	.5	1.1	2.4	1.8	4.2	.1	(NA)	(NA)
	OKLAHOMA	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TEXAS	7	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST REGION	31	12	3.5	31.3	2.7	5.3	21.3	57.1	31.8	88.1	(0)	FF	(0)
	MOUNTAIN DIVISION	6	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	COLORADO	3	1	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION	25	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WASHINGTON	3	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CALIFORNIA	22	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
317	WOMEN'S HANDBAGS AND PURSES	688	312	33.6	195.1	29.0	53.6	136.9	345.1	269.9	607.2	6.5	(NA)	(NA)
	NORTHEAST REGION	468	244	24.2	140.9	20.9	38.4	101.3	245.6	199.4	440.0	3.7	29.1	210.0
	NEW ENGLAND DIVISION	53	26	4.0	25.8	3.1	5.8	16.3	45.6	34.4	79.0	.7	3.8	30.6
	MASSACHUSETTS	28	13	2.2	14.7	1.6	2.8	8.5	26.9	20.8	46.8	.3	2.8	24.4
	RHODE ISLAND	12	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	2.5
	CONNECTICUT	10	5	1.1	7.3	.9	1.8	5.1	11.6	7.5	19.1	.2	.4	2.0
	MIDDLE ATLANTIC DIVISION	415	216	20.2	115.2	17.8	32.6	85.0	200.0	165.1	361.1	3.0	25.3	184.2
	NEW YORK	346	173	14.6	82.4	12.9	23.4	61.3	141.2	118.5	257.5	2.1	18.1	133.5
	NEW JERSEY	49	32	4.3	25.3	3.8	7.1	18.2	46.5	37.2	82.2	.7	5.3	30.3
	PENNSYLVANIA	20	13	1.3	7.4	1.2	2.2	5.5	12.4	9.3	21.4	.2	2.0	12.4
	NORTH CENTRAL REGION	56	26	4.7	31.1	3.8	7.2	19.8	59.0	37.1	94.1	1.2	4.5	39.5
	EAST NORTH CENTRAL DIVISION	34	13	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.9	17.4
	OHIO	6	2	.2	1.2	.1	.2	.5	1.9	1.2	3.1	(Z)	AA	(0)
	ILLINOIS	19	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	6.0
	WISCONSIN	5	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	WEST NORTH CENTRAL DIVISION	22	13	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.6	22.1
	MINNESOTA	3	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	MISSOURI	14	11	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
317	WOMEN'S HANDBAGS AND PURSES--CON.													
	SOUTH REGION	103	30	3.8	17.7	3.5	6.5	14.1	30.6	26.2	56.2	1.4	2.0	14.1
	SOUTH ATLANTIC DIVISION	47	16	2.0	9.0	1.8	3.2	6.9	14.3	12.4	26.3	.2	1.1	6.9
	NORTH CAROLINA	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	FLORIDA	26	11	1.2	5.8	1.1	2.1	4.6	9.4	7.1	16.1	.2	CC	(D)
	EAST SOUTH CENTRAL DIVISION	23	5	.9	4.3	.8	1.8	3.8	7.2	4.7	12.0	.4	BB	(D)
	TENNESSEE	14	4	.8	4.0	.8	1.7	3.6	6.9	4.5	11.4	.4	BB	(D)
	WEST SOUTH CENTRAL DIVISION	33	9	1.0	4.4	.9	1.5	3.4	9.0	9.1	17.9	.8	CC	(D)
	OKLAHOMA	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	TEXAS	25	8	.7	3.1	.6	1.1	2.3	6.7	7.4	13.9	.4	.3	2.7
	WEST REGION	61	12	1.0	5.3	.8	1.4	3.7	10.1	7.2	16.9	.2	1.2	10.1
	PACIFIC DIVISION	56	10	.9	5.0	.8	1.3	3.5	9.5	6.7	15.9	(D)	1.2	10.0
	CALIFORNIA	53	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	9.8
319	LEATHER GOODS, NEC	448	99	7.2	42.5	6.1	11.2	29.4	84.3	81.0	161.3	2.2	(NA)	(NA)
	NORTHEAST REGION	165	35	2.4	14.8	2.0	3.6	9.9	28.8	23.7	52.2	(D)	(NA)	(NA)
	NEW ENGLAND DIVISION	39	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	30	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	126	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	93	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY	12	2	.2	1.5	.2	.3	1.0	2.7	3.0	6.1	(2)	(NA)	(NA)
	PENNSYLVANIA	21	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION	73	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	46	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	16	5	.5	3.0	.4	.7	2.3	4.6	4.3	9.0	.1	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	27	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	119	31	2.5	13.9	2.1	4.0	9.7	30.4	34.3	61.6	.8	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	44	9	.6	4.0	.5	.9	2.3	7.7	10.2	17.2	.2	(NA)	(NA)
	MARYLAND	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	16	3	.2	1.3	.1	.2	.6	2.5	4.0	6.3	.1	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	20	10	1.1	5.4	.9	1.7	4.0	12.8	15.1	25.1	.3	(NA)	(NA)
	TENNESSEE	17	10	1.0	5.3	.9	1.7	3.9	12.5	14.8	24.5	.3	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	55	12	.8	4.6	.7	1.4	3.4	9.9	9.1	19.2	.3	(NA)	(NA)
	TEXAS	41	9	.6	3.6	.6	1.1	2.7	7.7	7.3	15.2	(D)	(NA)	(NA)
	WEST REGION	91	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MOUNTAIN DIVISION	29	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	13	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	62	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	53	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Leather and leather products (SIC 31)	Leather tanning and finishing (SIC 311)	Boot and shoe cut stock and findings (SIC 313)	Footwear, except rubber (SIC 314)	Leather gloves and mittens (SIC 315)	Luggage (SIC 316)	Handbags and personal leather goods (SIC 317)	Leather goods, n.e.c. (SIC 319)
ESTABLISHMENTS, TOTALNUMBER .	3 201	517	248	917	106	277	686	448
WITH 1 TO 19 EMPLOYEESDO .	1 544	294	127	205	46	147	376	349
WITH 20 TO 99 EMPLOYEESDO .	885	148	106	192	45	85	219	90
WITH 100 EMPLOYEES OR MOREDO .	772	75	15	520	15	45	93	9
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	273.4	25.7	8.7	176.2	4.9	17.1	33.6	7.2
PAYROLL FOR YEAR, ALL EMPLOYEESMILLION DOLLARS .	1 589.3	200.0	50.1	972.7	22.1	106.8	195.1	42.5
PRODUCTION WORKERS:								
AVERAGE FOR YEAR1,000 .	240.4	22.1	7.6	157.1	4.3	14.3	29.0	6.1
MARCHDO .	237.2	22.5	7.5	155.0	4.1	13.8	28.4	5.9
MAYDO .	241.0	22.6	7.7	154.1	4.2	14.0	27.3	6.0
AUGUSTDO .	245.3	22.4	7.6	160.2	4.4	14.7	29.9	6.2
NOVEMBERDO .	238.3	20.5	7.6	154.3	4.4	14.8	30.5	6.2
MAN-HOURSMILLIONS .	449.1	41.9	14.0	294.5	7.6	26.4	53.6	11.2
JANUARY-MARCHDO .	113.3	10.7	3.6	75.3	1.8	6.2	13.0	2.7
APRIL-JUNEDO .	115.6	11.2	3.6	76.6	1.9	6.7	12.7	2.8
JULY-SEPTEMBERDO .	109.1	10.1	3.4	70.8	1.9	6.6	13.6	2.8
OCTOBER-DECEMBERDO .	111.1	9.9	3.5	71.7	2.0	6.9	14.2	2.9
WAGESMILLION DOLLARS .	1 230.8	151.3	37.1	781.4	17.1	75.6	138.9	29.4
COST OF MATERIALS, ETC., TOTAL ¹DO .	2 895.4	708.0	120.5	1 489.0	55.0	171.9	269.9	81.0
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMEDDO .	2 577.7	624.6	113.3	1 354.8	36.5	145.5	236.1	66.9
COST OF REALESDO .	172.3	12.3	4.0	93.9	16.4	12.9	21.0	11.9
FUELS CONSUMEDDO .	16.6	10.3	.6	3.6	.2	.8	.6	.6
PURCHASED ELECTRIC ENERGYDO .	24.9	6.2	1.1	12.2	.3	1.6	2.8	.8
CONTRACT WORKDO .	103.9	54.6	1.5	24.6	1.8	11.0	9.5	.9
VALUE OF SHIPMENTS, INCLUDING REALES ¹DO .	5 769.5	1 059.5	206.5	3 272.2	98.2	364.5	607.2	161.3
VALUE OF REALESDO .	221.1	14.0	4.5	118.2	23.9	15.3	28.7	16.5
VALUE ADDED BY MANUFACTUREDO .	2 917.2	368.3	86.2	1 796.1	43.0	194.1	345.1	84.3
MANUFACTURERS' INVENTORIES:								
BEGINNING OF YEAR, TOTALDO .	717.7	130.2	21.0	394.7	19.6	59.7	66.2	26.4
FINISHED PRODUCTSDO .	316.1	36.7	7.1	185.7	9.1	32.0	31.8	13.7
WORK IN PROCESSDO .	157.0	62.0	2.7	67.7	3.9	6.1	10.3	4.2
MATERIALS, SUPPLIES, FUEL, ETC.DO .	244.6	31.3	11.3	141.2	6.6	21.5	24.2	8.5
END OF YEAR, TOTALDO .	796.1	149.0	21.2	433.8	20.3	66.0	75.4	30.2
FINISHED PRODUCTSDO .	324.5	37.8	6.9	186.3	8.9	32.2	36.7	15.7
WORK IN PROCESSDO .	184.0	75.9	2.8	77.7	3.9	7.2	11.8	4.7
MATERIALS, SUPPLIES, FUEL, ETC.DO .	287.5	35.3	11.5	169.7	7.5	26.7	27.0	9.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO .	81.1	17.4	3.0	40.5	.6	9.2	6.9	3.6
NEW PLANT AND EQUIPMENT, TOTALDO .	74.5	16.3	2.9	37.1	.5	8.9	6.5	2.2
NEW STRUCTURES AND ADDITIONS TO PLANTDO .	19.0	3.6	.8	7.9	.1	3.8	2.3	.5
NEW MACHINERY AND EQUIPMENTDO .	55.5	12.7	2.1	29.2	.4	5.2	4.2	1.7
USED PLANT AND EQUIPMENTDO .	6.6	1.2	.2	3.3	(Z)	.3	.3	1.4

(Z) Less than half of the unit of measurement shown.

¹The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Tanning; Industrial Leather Goods; and Shoes

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EXPLANATORY TEXT

TANNING; INDUSTRIAL LEATHER GOODS; AND SHOES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3111—Leather Tanning and Finishing
- 3131—Boot and Shoe Cut Stock and Findings
- 3142—House Slippers
- 3143—Men's Footwear, Except Athletic
- 3144—Women's Footwear, Except Athletic
- 3149—Footwear, Except Rubber, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3111.—LEATHER TANNING AND FINISHING

This industry comprises establishments primarily engaged in tanning, currying, and finishing hides and skins into leather. This industry also includes leather converters who buy hides and skins and have them processed on a contract basis by others. For a detailed list of products of industry 3111, refer to table 6A, product codes 31111 15 to 31119 11.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Leather Tanning and Finishing Industry in 1972 totaled \$1,059.5

million. This included shipments of tanned and finished leather (primary products) valued at \$1,018.2 million, shipments of other products (secondary products) valued at \$11.2 million, and miscellaneous receipts (mainly resales) of \$30.1 million.

Shipments of tanned and finished leather (primary products) in 1972 represented 99 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 98 percent. Secondary products shipped by this industry in 1972 consisted mainly of boot and shoe cut stock and findings (\$2.5 million).

Shipments of tanned and finished leather (primary products) from establishments classified in industry 3111 in 1972 represented 99 percent (coverage ratio) of these products valued at \$1,026.4 million shipped by all industries. In 1967, the coverage ratio was also 99 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3111, these establishments accounted for 7 percent of value of shipments.

INDUSTRY 3131.—BOOT AND SHOE CUT STOCK AND FINDINGS

This industry comprises establishments primarily engaged in manufacturing leather soles, innersoles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastic, and fiber are classified in SIC Major Group 30, Rubber and Miscellaneous Plastics Products. For a detailed list of products of industry 3131, refer to table 6A, product codes 31310 16 to 31310 61.

The 1972 definition of this industry is the same as that used in the 1967 classification. The SIC number and title are also the same.

Value of shipments and other receipts of the Boot and Shoe Cut Stock and Findings Industry in 1972 totaled \$206.5 million. This included shipments of boot and shoe cut stock and findings (primary products) valued at \$186.9 million, shipments of other products (secondary products) valued at \$11.5 million, and miscellaneous receipts (mainly resales) of \$8.1 million.

Shipments of boot and shoe cut stock and findings (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 94 percent. Secondary products shipped by this industry in 1972 consisted mainly of finished cattle hide and kip side leathers (\$2 to \$5 million) and fabricated rubber products, n.e.c. (\$2.7 million).

Shipments of boot and shoe cut stock and findings (primary products) from establishments classified in industry 3131 in 1972 represented 95 percent (coverage ratio) of these products valued at \$196.1 million shipped by all industries. In 1967, the coverage ratio was 93 percent. Other industries shipping boot and shoe cut stock and findings consisted mainly of industry 3069, Fabricated Rubber Products, N.E.C., (\$2 to \$5 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3131, these establishments accounted for 9 percent of value of shipments.

INDUSTRY 3142.—HOUSE SLIPPERS

This industry comprises establishments primarily engaged in the manufacture of house slippers of leather or other materials. For a detailed list of products of industry 3142, refer to table 6A, product codes 31420 60 to 31420 71.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the House Slippers Industry in 1972 totaled \$151.4 million. This included shipments of house slippers (primary products) valued at \$138.8 million, shipments of other products (secondary products) valued at \$5.4 million, and miscellaneous receipts (mainly contract receipts) of \$7.2 million.

Shipments of house slippers (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent. Secondary products shipped by this industry in 1972 consisted mainly of men's footwear, except athletic, (\$2 to \$5 million).

Shipments of house slippers (primary products) from establishments classified in industry 3142 in 1972 represented 87 percent (coverage ratio) of these products valued at \$159.4 million shipped by all industries. In 1967, the coverage ratio

was 93 percent. Other industries shipping house slippers consisted mainly of industry 3021, Rubber and Plastics Footwear (\$5 to \$10 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3142, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3143.—MEN'S FOOTWEAR, EXCEPT ATHLETIC

This industry comprises establishments primarily engaged in the production of men's dress and casual shoes and boots and workshoes. Establishments primarily engaged in the production of protective footwear and rubber soles vulcanized to fabric uppers are classified in industry 3021, Rubber and Plastics Footwear. For a detailed list of products of industry 3143, refer to table 6A, product codes 31431 11 to 31434 79.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. The old classification of Footwear, Except House Slippers and Rubber Footwear, was divided into three separate industries: 3143, Men's Footwear, Except Athletic; 3144, Women's Footwear, Except Athletic; and 3149, Footwear, Except Rubber, N.E.C.

The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC."

Value of shipments and other receipts of the Men's Footwear, Except Athletic, Industry in 1972 totaled \$1,288.9 million. This included shipments of men's dress and casual shoes and boots and workshoes (primary products) valued at \$1,145.0 million, shipments of other products (secondary products) valued at \$87.7 million, and miscellaneous receipts (mainly resales) of \$56.2 million.

Shipments of men's dress and casual shoes and boots and workshoes (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of footwear, except rubber, n.e.c., (\$50.7 million).

Shipments of men's footwear, except athletic, (primary products) from establishments classified in industry 3143 in 1972 represented 97 percent (coverage ratio) of these products valued at \$1,181.4 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail

portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3143, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3144.—WOMEN'S FOOTWEAR, EXCEPT ATHLETIC

This industry comprises establishments primarily engaged in the production of women's dress and casual shoes and boots. Establishments primarily engaged in manufacturing men's footwear are classified in industry 3143 and rubber and plastic footwear are classified in industry 3021, Rubber and Plastics Footwear. For a detailed list of products of industry 3144, refer to table 6A, product codes 31441 11 to 31445 79.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. The old classification of Footwear, Except House Slippers and Rubber Footwear, was divided into three separate industries: 3143, Men's Footwear, Except Athletic; 3144, Women's Footwear, Except Athletic; and 3149, Footwear, Except Rubber, N.E.C.

The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC."

Value of shipments and other receipts of the Women's Footwear, Except Athletic, Industry in 1972 totaled \$1,346.1 million. This included shipments of women's dress and casual shoes and boots (primary products) valued at \$1,240.2 million, shipments of other products (secondary products) valued at \$36.8 million, and miscellaneous receipts (mainly resales) of \$69.1 million.

Shipments of women's footwear, except athletic, (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of footwear, except rubber, n.e.c., (\$16.8 million).

Shipments of women's footwear, except athletic, (primary products) from establishments classified in industry 3144 in 1972 represented 95 percent (coverage ratio) of these products valued at \$1,305.5 million shipped by all industries. Other industries shipping women's footwear, except athletic, consisted mainly of industries 3143, Men's Footwear, Except Athletic, (\$31.1 million); and 3149, Footwear, Except Rubber, N.E.C., (\$29.2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at

the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3144, these establishments accounted for 6 percent of value of shipments.

INDUSTRY 3149.—FOOTWEAR, EXCEPT RUBBER, N.E.C.

This industry comprises establishments primarily engaged in the production of all other footwear, except men's, women's, and rubber and plastic footwear. For a detailed list of products of industry 3149, refer to table 6A, product codes 31491 11 to 31494 00.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. The old classification of Footwear, Except House Slippers and Rubber Footwear, was divided into three separate industries: 3143, Men's Footwear, Except Athletic; 3144, Women's Footwear, Except Athletic; and 3149, Footwear, Except Rubber, N.E.C.

The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC."

Value of shipments and other receipts of the Footwear, Except Rubber, N.E.C., Industry in 1972 totaled \$485.9 million. This included shipments of youths', boys', misses', children's, infants', and babies' footwear (primary products) valued at \$408.7 million, shipments of other products (secondary products) valued at \$53.2 million, and miscellaneous receipts (mainly resales) of \$24.0 million.

Shipments of all other footwear, except rubber, n.e.c., (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of men's and women's footwear, except athletic (\$47.1 million).

Shipments of all other footwear, except rubber, n.e.c. (primary products) from establishments classified in industry 3149 in 1972 represented 85 percent (coverage ratio) of these products valued at \$479.1 million shipped by all industries. Other industries shipping all other footwear, except rubber, n.e.c., consisted mainly of industry 3143, Men's Footwear, Except Athletic (\$50.7 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3149, these establishments accounted for 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3111.--LEATHER TANNING AND FINISHING															
1972 Census.....	517	223	25.7	200.0	22.1	41.9	151.3	368.3	708.0	1,059.5	16.3	(NA)	149.0	99	99
1971 ASM.....	(NA)	(NA)	24.5	183.9	20.7	40.9	137.6	335.0	498.5	838.3	17.7	198.0	126.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	24.1	171.5	20.4	40.4	129.8	320.2	471.4	794.4	12.4	179.4	119.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	28.8	188.1	24.4	47.4	142.8	331.2	514.9	853.9	14.4	197.5	136.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	31.1	196.0	26.7	53.0	151.2	349.5	524.5	877.9	16.6	205.0	137.0	(NA)	(NA)
1967 Census.....	519	258	30.7	186.4	26.4	52.8	142.5	319.4	547.0	870.1	16.7	194.7	135.8	98	99
1966 ASM.....	(NA)	(NA)	32.7	189.2	28.2	57.5	144.4	326.4	614.1	940.5	17.3	(NA)	144.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	32.0	180.0	27.9	56.9	139.0	327.0	535.6	856.7	11.3	(NA)	144.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	31.2	169.0	27.1	54.6	131.5	300.2	481.3	783.6	*7.8	190.6	137.7	(NA)	(NA)
1963 Census.....	525	256	31.4	163.3	27.3	54.6	129.8	273.1	480.5	758.4	6.5	189.2	140.3	99	100
1962 ASM.....	(NA)	(NA)	31.7	157.2	27.3	53.3	123.1	263.6	491.0	765.9	*7.2	183.8	146.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	33.2	157.9	28.7	55.0	124.0	267.5	486.7	761.1	4.7	(NA)	154.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	34.5	163.9	30.0	57.6	128.9	278.5	508.5	790.7	6.1	(NA)	149.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	37.1	173.6	32.4	62.6	137.1	337.5	558.9	886.9	7.6	(NA)	160.1	(NA)	(NA)
1958 Census.....	578	280	37.1	165.5	32.5	63.4	133.2	275.8	464.9	743.1	7.9	(NA)	149.3	100	100
INDUSTRY 3131.--BOOT AND SHOE CUT STOCK AND FINDINGS															
1972 Census.....	248	121	8.7	50.1	7.6	14.0	37.1	86.2	120.5	206.5	2.9	(NA)	21.2	94	95
1971 ASM.....	(NA)	(NA)	11.0	61.7	9.5	17.7	46.0	110.1	124.7	234.0	6.9	40.7	28.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	12.6	64.9	11.0	20.2	48.8	115.7	133.2	249.4	*6.7	38.4	26.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	13.7	65.5	12.1	23.5	50.6	121.3	151.7	269.5	*4.5	*45.8	30.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	13.8	62.7	12.2	23.6	48.6	120.4	143.6	262.1	*2.1	(S)	26.7	(NA)	(NA)
1967 Census.....	379	189	13.7	59.9	12.2	22.7	45.8	109.2	153.5	262.8	2.7	(S)	25.1	94	93
1966 ASM.....	(NA)	(NA)	14.5	65.2	12.4	24.2	47.3	104.4	178.9	282.8	*3.1	(NA)	25.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	14.5	61.4	12.7	24.8	45.4	98.0	153.9	250.4	2.3	(NA)	23.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	13.8	52.7	12.1	23.2	37.4	97.4	125.7	223.8	1.2	*25.0	22.1	(NA)	(NA)
1963 Census.....	446	204	14.3	53.4	12.6	23.7	40.9	90.6	138.2	229.3	1.6	*25.3	23.0	93	94
1962 ASM.....	(NA)	(NA)	17.4	61.1	15.3	29.3	48.8	111.6	149.2	261.5	*.9	*23.6	26.4	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	19.7	66.7	17.3	32.3	53.0	112.0	160.1	272.5	(S)	(NA)	26.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	20.1	68.8	17.6	33.5	54.0	113.2	174.4	288.0	(S)	(NA)	27.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	20.3	68.3	17.9	33.4	53.9	116.9	180.5	296.9	(S)	(NA)	28.5	(NA)	(NA)
1958 Census.....	513	235	18.0	58.5	15.5	28.9	44.6	98.4	158.6	256.7	2.0	(NA)	26.2	95	95
INDUSTRY 3142.--HOUSE SLIPPERS															
1972 Census.....	91	66	8.5	48.1	7.1	12.7	33.4	85.7	66.5	151.4	1.7	(NA)	23.6	95	87
1971 ASM.....	(NA)	(NA)	10.9	53.3	9.3	16.2	37.6	101.2	74.1	176.4	1.1	19.2	24.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	11.3	54.1	9.8	17.5	39.1	101.5	76.0	175.3	1.4	23.0	24.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	11.2	53.5	9.9	18.1	41.2	96.4	77.9	174.0	2.0	19.0	23.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	11.6	54.6	10.2	19.5	42.3	91.6	79.4	173.6	*1.2	19.7	22.1	(NA)	(NA)
1967 Census.....	132	92	12.5	53.2	11.0	20.5	40.0	94.2	86.8	181.0	1.3	21.4	25.0	92	93
1966 ASM.....	(NA)	(NA)	13.7	53.1	11.7	21.9	39.4	86.8	76.9	162.0	1.4	(NA)	19.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.6	49.0	11.3	20.2	36.5	78.6	71.2	148.6	1.5	(NA)	16.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	12.1	45.1	10.8	19.2	34.6	72.5	65.2	137.7	1.3	15.4	15.8	(NA)	(NA)
1963 Census.....	153	97	11.0	39.8	9.9	17.3	30.4	64.6	58.9	123.6	1.1	14.3	11.9	90	85
1962 ASM.....	(NA)	(NA)	12.0	42.4	10.6	18.4	31.5	67.7	66.2	133.7	*1.1	13.5	13.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	12.3	40.1	10.8	18.1	29.4	67.9	64.4	131.8	*1.2	(NA)	11.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.3	38.6	10.0	17.4	28.9	60.1	59.1	119.4	(S)	(NA)	10.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	12.5	41.0	11.0	19.2	30.8	65.7	62.8	128.4	(S)	(NA)	11.6	(NA)	(NA)
1958 Census.....	164	97	11.5	37.1	10.2	18.0	28.3	59.7	52.6	112.1	.6	(NA)	10.5	90	85
INDUSTRY 3143.--MEN'S FOOTWEAR, EXCEPT ATHLETIC															
1972 Census.....	221	197	61.5	358.2	54.4	106.3	288.9	674.4	623.0	1,288.9	14.3	(NA)	193.0	93	97
1967 Census.....	199	(NA)	64.9	282.2	58.6	110.0	228.9	544.5	505.8	1,058.2	9.0	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3144.--WOMEN'S FOOTWEAR, EXCEPT ATHLETIC															
1972 Census.....	422	316	77.4	408.3	70.0	128.5	334.2	763.6	591.6	1,346.1	14.8	(NA)	141.7	97	95
1967 Census.....	341	(NA)	94.8	395.1	86.1	157.7	321.5	712.6	560.6	1,268.8	10.2	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3149.--FOOTWEAR, EXCEPT RUBBER, N.E.C.															
1972 Census.....	183	133	28.7	158.1	25.6	46.9	124.9	272.6	208.0	485.9	6.4	(NA)	75.5	88	85
1967 Census.....	² 151	(NA)	30.0	124.5	27.2	51.0	101.4	219.3	156.2	374.8	5.4	(NA)	(NA)	(NA)	(NA)

See footnotes on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3111	Industry 3131	Industry 3142	Industry 3143	Industry 3144	Industry 3149
1972.....	468	225	82	115	296	152
1967.....	474	348	125	(NA)	(NA)	(NA)
1963.....	482	414	149	(NA)	(NA)	(NA)

(NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²The number of establishments shown for 1967 may not accurately reflect those operating during this period since administrative record cases are excluded. This should not significantly affect the other statistics.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3111.--LEATHER TANNING AND FINISHING											
1972 Census.....	7,782	(NA)	86	1,896	3.61	.67	.86	(NA)	14,331	54	8.79
1971 ASM.....	7,506	8,082	85	1,976	3.36	.60	.81	.24	13,673	55	8.19
1970 ASM.....	7,116	7,444	85	1,980	3.21	.59	.81	.23	13,286	54	7.93
1969 ASM.....	6,531	6,860	85	1,943	3.01	.60	.82	.23	11,500	57	6.99
1968 ASM.....	6,302	6,590	86	1,985	2.85	.60	.82	.23	11,238	56	6.59
1967 Census.....	6,071	6,340	86	2,004	2.70	.63	.84	.22	10,401	58	6.05
1966 ASM.....	5,787	(NA)	86	2,037	2.51	.65	.85	(NA)	9,983	58	5.68
1965 ASM.....	5,629	(NA)	87	2,040	2.44	.63	.84	(NA)	10,228	55	5.75
1964 ASM.....	5,416	6,110	87	2,014	2.41	.61	.83	.24	9,619	56	5.49
1963 Census.....	5,198	6,030	87	2,000	2.38	.63	.85	.25	8,692	60	5.01
1962 ASM.....	4,967	5,800	86	1,954	2.31	.64	.85	.24	8,326	60	4.94
1961 ASM.....	4,752	(NA)	86	1,920	2.25	.64	.85	(NA)	8,049	59	4.86
1960 ASM.....	4,744	(NA)	87	1,923	2.24	.64	.85	(NA)	8,064	59	4.84
1959 ASM.....	4,684	(NA)	87	1,935	2.19	.63	.83	(NA)	9,109	51	5.39
1958 Census.....	4,459	(NA)	87	1,952	2.10	.63	.85	(NA)	7,428	60	4.35
INDUSTRY 3131.--BOOT AND SHOE CUT STOCK AND FINDINGS											
1972 Census.....	5,759	(NA)	87	1,842	2.65	.58	.83	(NA)	9,908	58	6.16
1971 ASM.....	5,609	3,700	86	1,863	2.60	.53	.80	.17	10,009	56	6.22
1970 ASM.....	5,151	3,048	87	1,836	2.42	.53	.79	.15	9,183	56	5.73
1969 ASM.....	4,781	2,940	88	1,942	2.15	.56	.81	.17	8,854	54	5.16
1968 ASM.....	4,543	(S)	88	1,934	2.06	.55	.79	(S)	8,725	52	5.10
1967 Census.....	4,688	(S)	86	1,852	2.13	.58	.81	(S)	7,972	55	4.81
1966 ASM.....	4,513	(NA)	86	1,945	1.95	.63	.86	(NA)	7,226	62	4.32
1965 ASM.....	4,219	(NA)	87	1,948	1.61	.61	.86	(NA)	6,738	63	3.96
1964 ASM.....	3,816	1,810	87	1,920	1.72	.56	.80	.11	7,045	54	4.20
1963 Census.....	3,726	1,770	88	1,880	1.67	.60	.84	.11	6,319	59	3.82
1962 ASM.....	3,514	1,360	88	1,914	1.64	.57	.80	.09	6,412	55	3.81
1961 ASM.....	3,382	(NA)	88	1,867	2.64	.59	.83	(NA)	5,674	60	3.46
1960 ASM.....	3,429	(NA)	88	1,898	1.61	.61	.84	(NA)	5,641	61	3.38
1959 ASM.....	3,360	(NA)	88	1,867	1.61	.61	.84	(NA)	5,757	58	3.50
1958 Census.....	3,244	(NA)	86	1,860	1.54	.62	.85	(NA)	5,456	59	3.41

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3142.--HOUSE SLIPPERS											
1972 Census.....	5,656	(NA)	84	1,789	2.63	.44	.76	(NA)	10,082	56	6.75
1971 ASM.....	4,890	1,761	85	1,742	2.32	.42	.72	.11	9,284	53	6.25
1970 ASM.....	4,788	2,035	87	1,786	2.23	.43	.74	.13	8,982	53	5.80
1969 ASM.....	4,777	1,700	88	1,828	2.28	.45	.76	.11	8,607	56	5.33
1968 ASM.....	4,706	1,700	88	1,912	2.17	.46	.77	.11	7,897	60	4.70
1967 Census.....	4,248	1,710	88	1,863	1.95	.48	.77	.12	7,518	57	4.60
1966 ASM.....	3,881	(NA)	86	1,865	1.80	.48	.80	(NA)	6,340	61	3.97
1965 ASM.....	3,882	(NA)	89	1,791	1.81	.48	.81	(NA)	6,226	62	3.90
1964 ASM.....	3,713	1,270	89	1,779	1.80	.47	.80	.11	5,971	62	3.77
1963 Census.....	3,604	1,300	90	1,744	1.76	.48	.80	.12	5,848	62	3.74
1962 ASM.....	3,526	1,130	88	1,731	1.71	.50	.81	.10	5,633	63	3.68
1961 ASM.....	3,270	(NA)	88	1,673	1.62	.49	.79	(NA)	5,531	59	3.75
1960 ASM.....	3,403	(NA)	88	1,739	1.66	.50	.82	(NA)	5,294	64	3.45
1959 ASM.....	3,288	(NA)	88	1,750	1.60	.49	.81	(NA)	5,276	62	3.42
1958 Census.....	3,217	(NA)	88	1,775	1.57	.47	.80	(NA)	5,178	62	3.31
INDUSTRY 3143.--MEN'S FOOTWEAR, EXCEPT ATHLETIC											
1972 Census.....	5,824	(NA)	88	1,954	2.72	.48	.85	(NA)	10,966	53	6.34
INDUSTRY 3144.--WOMEN'S FOOTWEAR, EXCEPT ATHLETIC											
1972 Census.....	5,275	(NA)	90	1,836	2.60	.44	.74	(NA)	9,866	53	5.94
INDUSTRY 3149.--FOOTWEAR, EXCEPT RUBBER, N.E.C.											
1972 Census.....	5,509	(NA)	89	1,832	2.66	.43	.75	(NA)	9,498	58	5.81

(NA) Not available.

(S) Withheld because the data did not meet publication standards.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3143.--Men's Footwear, Except Athletic.....	221	197	61.5	674.4	1,288.9	(X)	(X)	(X)	(X)	(X)
Old industry 3141.--Shoes, Except Rubber.....	221	197	61.5	674.4	1,288.9	824	644	167.2	1,707.6	3,116.0
New industry 3144.--Women's Footwear, Except Athletic.....	422	316	77.4	763.6	1,346.1	(X)	(X)	(X)	(X)	(X)
Old industry 3141.--Shoes, Except Rubber.....	421	315	77.4	763.6	1,346.1	824	644	167.3	1,710.1	3,119.0
Old industry 3142.--House Slippers.....	1	1				1	1			
New industry 3149.--Footwear, Except Rubber, N.E.C.....	183	133	28.7	272.6	485.9	(X)	(X)	(X)	(X)	(X)
Old industry 3141.--Shoes, Except Rubber.....	182	132	28.7	272.6	485.9	824	644	167.5	1,708.1	3,117.9
Old industry 3021.--Rubber Footwear	1	1				1	1			

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3111-- LEATHER TANNING AND FINISHING													
UNITED STATES	517	223	25.7	200.0	22.1	41.9	151.3	368.3	708.0	1 059.5	16.3	30.7	339.4
NORTHEAST REGION	324	132	13.3	102.2	11.3	20.8	74.7	183.2	366.6	545.6	7.5	16.4	167.4
NEW ENGLAND DIVISION	163	78	7.4	57.3	6.2	11.8	41.2	99.0	219.6	316.3	4.2	9.7	95.2
MAINE	15	10	1.9	14.0	1.7	3.3	10.9	25.5	64.1	90.0	1.6	2.1	20.8
NEW HAMPSHIRE	19	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
VERMONT	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS E1	128	53	4.0	32.2	3.2	6.0	21.8	55.3	118.7	172.4	1.9	5.9	60.8
MIDDLE ATLANTIC DIVISION	161	54	5.9	44.8	5.1	9.0	33.5	84.2	146.9	229.3	3.2	6.7	72.2
NEW YORK E1	98	26	2.4	17.5	2.1	3.8	13.7	27.8	52.6	79.6	1.3	2.5	25.6
NEW JERSEY E1	43	15	2.0	13.4	1.7	2.5	9.0	31.0	45.6	74.6	1.0	2.3	27.7
PENNSYLVANIA	20	13	1.6	14.0	1.3	2.7	10.9	25.4	48.8	75.0	.9	1.9	18.9
NORTH CENTRAL REGION	84	48	7.0	62.2	5.9	11.9	46.8	113.2	196.8	300.9	5.8	9.0	102.3
EAST NORTH CENTRAL DIVISION	62	39	6.1	54.8	5.2	10.6	41.3	103.3	170.0	263.5	4.9	8.2	93.4
OHIO	8	4	.2	1.0	.2	.3	.7	2.2	7.9	9.9	-	CC	(D)
ILLINOIS	19	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	23.9
MICHIGAN	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	15.3
WISCONSIN	22	19	3.4	31.1	2.8	5.7	23.1	59.5	100.5	153.5	2.5	4.4	51.4
WEST NORTH CENTRAL DIVISION	22	9	.9	7.4	.7	1.4	5.5	9.9	26.8	37.3	.8	.8	9.0
MINNESOTA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
IOWA E1	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	59	27	3.7	23.2	3.2	6.5	19.1	47.1	98.9	144.0	2.1	4.6	40.6
SOUTH ATLANTIC DIVISION	27	14	2.0	13.2	1.8	3.6	11.0	24.9	48.4	71.9	1.0	3.0	24.6
DELAWARE	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
VIRGINIA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST VIRGINIA	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA	5	2	.2	1.1	.2	.3	.9	2.8	3.8	6.0	(D)	AA	(D)
GEORGIA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION	12	10	1.4	8.8	1.2	2.4	7.0	20.3	49.0	68.7	1.0	1.4	14.7
KENTUCKY E2	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE	8	7	.9	5.9	.7	1.5	4.5	14.0	39.4	53.2	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION E3	20	3	.2	1.3	.2	.5	1.1	1.9	1.5	3.4	.1	.2	1.3
TEXAS E3	15	3	.2	1.2	.2	.5	1.0	1.8	1.3	3.1	(D)	AA	(D)
WEST REGION	50	16	1.7	12.4	1.6	2.5	10.7	24.8	45.8	69.1	.9	.8	9.1
PACIFIC DIVISION	42	14	1.6	11.9	1.5	2.4	10.3	23.8	45.0	67.3	(D)	.7	9.0
CALIFORNIA	33	13	1.6	11.3	1.5	2.3	9.9	22.8	43.5	64.9	.9	.7	8.4
3111-11 TANNERIES													
NORTHEAST REGION	145	72	8.2	66.9	7.0	13.6	49.0	118.6	233.2	349.3	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	75	41	4.5	35.2	3.8	7.2	24.9	57.4	121.3	178.4	(D)	(NA)	(NA)
MAINE	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE	9	7	.9	7.3	.8	1.5	5.6	12.4	25.2	36.5	(D)	(NA)	(NA)
VERMONT	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS E1	58	27	2.1	17.9	1.7	3.3	11.6	26.1	55.5	81.4	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	70	31	3.8	31.8	3.2	6.3	24.1	61.2	111.9	170.9	(D)	(NA)	(NA)
NEW YORK	32	10	1.1	8.2	1.0	1.9	6.7	13.4	29.7	41.9	(D)	(NA)	(NA)
NEW JERSEY	23	10	1.3	11.1	1.0	2.1	7.7	24.1	34.2	56.3	(D)	(NA)	(NA)
PENNSYLVANIA	15	11	1.4	12.4	1.2	2.4	9.7	23.8	48.1	72.7	(D)	(NA)	(NA)
NORTH CENTRAL REGION	68	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	51	33	5.3	48.8	4.4	9.1	36.6	92.9	160.7	244.1	(D)	(NA)	(NA)
ILLINOIS	17	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	19	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	17	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA E1	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	43	21	2.9	17.6	2.5	5.1	14.4	37.5	66.5	100.6	1.5	(NA)	(NA)
SOUTH ATLANTIC DIVISION	21	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DELAWARE	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA E1	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY E2	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION E1	45	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E1	38	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	29	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3111-- LEATHER TANNING AND FINISHING--CONTINUED													
3111-22 CONVERTERS													
NORTHEAST REGION E1	62	7	.6	6.0	.3	.7	2.3	20.3	108.8	127.3	(D)	(NA)	(NA)
NEW ENGLAND DIVISION E1	28	6	.4	3.9	.2	.4	1.6	14.5	82.7	94.6	(D)	(NA)	(NA)
MASSACHUSETTS E1	23	6	.4	3.5	.2	.4	1.5	12.7	55.3	66.5	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . E3	34	1	.2	2.1	.1	.2	.8	5.8	26.1	32.7	(D)	(NA)	(NA)
SOUTH REGION	7	2	.6	4.3	.5	1.0	3.6	7.9	30.3	39.6	.5	(NA)	(NA)
SOUTH ATLANTIC DIVISION E1	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3111-33 CONTRACT TANNERIES													
NORTHEAST REGION	117	53	4.5	29.3	4.0	6.6	23.4	44.2	24.6	69.0	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	60	31	2.5	18.3	2.2	4.2	14.7	27.0	15.6	43.4	(D)	(NA)	(NA)
MAINE	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE E1	7	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS E1	47	20	1.4	10.9	1.3	2.3	8.7	16.5	8.0	24.5	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	57	22	2.0	11.0	1.7	2.4	8.7	17.2	9.0	25.6	(D)	(NA)	(NA)
NEW YORK	41	16	1.2	8.2	1.0	1.9	6.5	12.0	5.9	17.9	(D)	(NA)	(NA)
NEW JERSEY	11	4	.6	1.2	.6	.3	.9	3.5	2.4	5.4	(D)	(NA)	(NA)
PENNSYLVANIA	5	2	.2	1.6	.2	.3	1.2	1.7	.7	2.3	(D)	(NA)	(NA)
NORTH CENTRAL REGION	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . .	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	9	4	.2	1.4	.2	.5	1.2	1.7	2.0	3.8	.1	(NA)	(NA)
WEST REGION	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3131-- BOOT, SHOE CUT STOCK, AND FINDINGS													
UNITED STATES	248	121	8.7	50.1	7.6	14.0	37.1	86.2	120.5	206.5	2.9	13.7	109.2
NORTHEAST REGION E1	181	88	6.0	36.2	5.1	9.4	25.7	62.0	81.8	144.0	2.1	9.7	77.4
NEW ENGLAND DIVISION	128	67	4.7	29.1	4.0	7.2	20.1	49.6	62.9	112.4	1.6	7.7	61.9
MAINE	16	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW HAMPSHIRE E2	18	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS	89	45	2.8	17.7	2.3	4.1	12.0	30.7	44.2	74.8	.7	5.4	46.4
RHODE ISLAND	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION E1	53	21	1.3	7.1	1.1	2.2	5.7	12.4	18.9	31.6	.5	2.0	15.5
NEW YORK E1	31	12	.6	3.3	.5	1.0	2.6	6.1	8.9	15.1	.1	1.3	11.2
PENNSYLVANIA E1	19	9	.7	3.7	.6	1.2	3.0	6.1	9.8	16.2	.4	CC	(D)
NORTH CENTRAL REGION	44	24	2.2	11.2	2.0	3.8	9.3	19.2	29.8	49.0	.6	3.0	23.4
EAST NORTH CENTRAL DIVISION . . .	14	5	.4	2.4	.4	.7	1.9	3.8	6.7	10.5	.1	.8	5.6
WISCONSIN	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.6
WEST NORTH CENTRAL DIVISION . . .	30	19	1.8	8.8	1.7	3.1	7.4	15.4	23.1	38.5	.5	2.3	17.8
MISSOURI	30	19	1.8	8.8	1.7	3.1	7.4	15.4	23.1	38.5	.5	EE	(D)
SOUTH REGION	15	7	.4	1.8	.3	.6	1.5	3.7	7.7	11.1	.1	.9	6.6
SOUTH ATLANTIC DIVISION	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION . . .	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION E3	8	2	.2	.9	.1	.3	.6	1.4	1.1	2.5	.1	.2	1.7
PACIFIC DIVISION E3	8	2	.2	.9	.1	.3	.6	1.4	1.1	2.5	.1	.2	1.7
CALIFORNIA E3	8	2	.2	.9	.1	.3	.6	1.4	1.1	2.5	.1	AA	(D)
3142-- HOUSE SLIPPERS													
UNITED STATES	91	66	8.5	48.1	7.1	12.7	33.4	85.7	66.5	151.4	1.7	12.5	94.2
NORTHEAST REGION	64	49	5.5	32.3	4.9	8.4	23.0	51.4	41.5	92.1	.8	9.6	70.5
NEW ENGLAND DIVISION E1	17	13	1.3	7.4	1.2	1.8	5.2	11.6	9.4	20.7	.1	2.3	16.0
MAINE E1	3	3	.4	2.3	.3	.5	1.5	3.3	2.4	5.6	.1	(NA)	(NA)
MASSACHUSETTS	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	12.6
MIDDLE ATLANTIC DIVISION	47	36	4.2	24.9	3.7	6.6	17.8	39.8	32.1	71.4	(D)	7.3	54.5
NEW YORK	35	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.0	36.3
NEW JERSEY	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	9.2
PENNSYLVANIA	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	9.0

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3142-- HOUSE SLIPPERS--CONTINUED													
NORTH CENTRAL REGION	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
EAST NORTH CENTRAL DIVISION. . .	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8	7.3
OHIO	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ILLINOIS	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. E1	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSOURI	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	13	9	1.9	9.3	1.4	2.9	6.7	20.9	16.1	36.7	.7	1.6	12.6
SOUTH ATLANTIC DIVISION.	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	8.9
NORTH CAROLINA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA.	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.0
EAST SOUTH CENTRAL DIVISION. . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ARKANSAS	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3143-- MEN'S FOOTWEAR, EXCEPT ATHLETIC													
UNITED STATES.	221	197	61.5	358.2	54.4	106.3	288.9	674.4	623.0	1 288.9	14.3	(NA)	(NA)
NORTHEAST REGION	103	87	21.6	124.4	19.4	35.8	100.1	228.8	197.3	434.9	6.4	(NA)	(NA)
NEW ENGLAND DIVISION	75	63	15.9	92.5	13.9	25.1	71.5	158.9	133.3	296.2	5.1	(NA)	(NA)
MAINE.	27	26	7.1	39.6	6.3	11.5	31.1	70.1	58.6	128.7	2.6	(NA)	(NA)
NEW HAMPSHIRE.	14	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	32	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	28	24	5.8	31.9	5.5	10.7	28.6	69.8	64.0	138.8	1.3	(NA)	(NA)
NEW YORK	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	17	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	53	52	18.5	116.3	15.6	32.7	91.3	235.5	202.0	430.6	2.9	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	39	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	28	28	7.7	42.4	5.8	13.7	32.8	90.4	87.5	175.3	.9	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	14	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	58	53	20.8	114.4	19.0	37.1	95.3	204.7	218.9	413.3	4.9	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	23	20	6.8	33.0	6.3	11.8	28.0	51.9	71.0	122.0	1.1	(NA)	(NA)
MARYLAND	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	4	4	1.9	10.6	1.6	3.0	7.7	13.3	28.2	41.7	.2	(NA)	(NA)
GEORGIA.	8	7	2.7	12.0	2.5	4.7	10.8	22.6	24.9	46.8	.6	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	24	24	11.3	67.9	10.3	20.4	56.2	126.2	121.7	239.3	2.9	(NA)	(NA)
KENTUCKY	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	21	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	11	9	2.6	13.6	2.4	4.8	11.1	26.6	26.1	52.0	.9	(NA)	(NA)
ARKANSAS	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	7	5	.4	3.1	.3	.7	2.1	5.4	5.0	10.1	.1	(NA)	(NA)
PACIFIC DIVISION	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3144-- WOMEN'S FOOTWEAR, EXCEPT ATHLETIC													
UNITED STATES.	422	316	77.4	408.3	70.0	128.5	334.2	763.6	591.6	1 346.1	14.8	(NA)	(NA)
NORTHEAST REGION	230	173	38.9	206.7	34.5	61.4	160.6	330.3	266.9	595.8	9.6	(NA)	(NA)
NEW ENGLAND DIVISION E1	122	94	23.9	127.3	21.2	37.1	97.2	194.6	169.3	362.6	5.6	(NA)	(NA)
MAINE.	43	33	8.0	40.8	7.1	12.1	30.4	56.2	54.0	112.0	.9	(NA)	(NA)
NEW HAMPSHIRE.	32	26	7.3	37.2	6.6	11.4	29.0	64.4	50.6	114.5	1.3	(NA)	(NA)
MASSACHUSETTS. E1	42	32	8.3	47.7	7.3	13.2	36.8	71.2	62.5	131.1	3.6	(NA)	(NA)
CONNECTICUT.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	108	79	15.1	79.5	13.4	24.2	63.4	135.7	97.6	233.2	3.8	(NA)	(NA)
NEW YORK E1	60	35	5.3	30.9	4.6	8.1	22.7	54.7	32.3	86.3	1.8	(NA)	(NA)
NEW JERSEY E2	7	5	.3	1.9	.3	.5	1.4	2.4	1.8	4.1	-	(NA)	(NA)
PENNSYLVANIA	41	39	9.5	46.7	8.5	15.6	39.4	78.6	63.5	142.8	2.0	(NA)	(NA)
NORTH CENTRAL REGION	73	60	18.2	101.4	16.9	31.9	88.4	244.1	179.7	418.5	2.2	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	40	30	9.6	56.5	8.8	16.9	47.6	138.2	102.3	235.3	1.5	(NA)	(NA)
OHIO	14	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	10	5	.6	2.9	.6	1.1	2.5	4.4	3.3	7.5	-	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	33	30	8.6	44.9	8.1	15.0	40.8	105.9	77.4	183.2	.7	(NA)	(NA)
MISSOURI	29	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3144-- WOMEN'S FOOTWEAR, EXCEPT ATHLETIC--CONTINUED													
SOUTH REGION	84	64	17.5	85.4	16.1	30.5	74.1	164.0	126.6	288.6	2.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	33	19	4.1	19.0	3.9	7.4	16.2	29.1	25.7	54.7	.6	(NA)	(NA)
MARYLAND E1	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA E1	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	17	7	1.0	4.9	.8	1.7	3.6	7.5	5.0	12.0	.3	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	25	24	8.3	44.2	7.8	15.2	39.5	93.1	73.8	164.9	1.3	(NA)	(NA)
KENTUCKY	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	7	7	2.8	15.1	2.7	5.1	14.2	33.8	22.0	55.3	.2	(NA)	(NA)
ALABAMA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	26	21	5.0	22.2	4.5	8.0	18.4	41.9	27.1	67.0	.6	(NA)	(NA)
ARKANSAS	13	13	4.2	18.9	3.8	6.8	15.9	37.1	22.0	58.9	.4	(NA)	(NA)
TEXAS E1	13	8	.8	3.3	.7	1.2	2.6	4.7	5.1	10.1	.2	(NA)	(NA)
WEST REGION. E2	35	19	2.8	14.9	2.4	4.6	11.2	25.2	18.3	43.2	.7	(NA)	(NA)
MOUNTAIN DIVISION. E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW MEXICO E3	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E2	30	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA E2	25	15	2.5	13.5	2.1	4.2	10.1	22.8	16.4	39.0	(D)	(NA)	(NA)
3149-- FOOTWEAR, EXCEPT RUBBER, NEC													
UNITED STATES.	183	133	28.7	158.1	25.6	46.9	124.9	272.6	208.0	485.9	6.4	(NA)	(NA)
NORTHEAST REGION	90	68	12.5	72.9	10.9	19.8	54.8	118.4	95.9	218.1	2.7	(NA)	(NA)
NEW ENGLAND DIVISION	36	27	5.8	36.4	5.1	9.1	27.2	61.9	54.2	120.5	1.2	(NA)	(NA)
MAINE	10	6	1.3	6.6	1.2	2.1	5.7	15.4	11.7	26.3	.4	(NA)	(NA)
NEW HAMPSHIRE	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	21	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	54	41	6.7	36.5	5.8	10.8	27.5	56.6	41.7	97.5	1.5	(NA)	(NA)
NEW YORK	21	11	2.0	12.4	1.8	3.5	9.4	20.3	13.7	33.5	.3	(NA)	(NA)
PENNSYLVANIA	33	30	4.7	24.0	4.0	7.3	18.2	36.2	28.0	64.1	1.0	(NA)	(NA)
NORTH CENTRAL REGION	41	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	19	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	22	20	5.0	25.5	4.4	7.9	20.1	43.0	33.6	79.0	1.2	(NA)	(NA)
MINNESOTA	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	17	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	39	30	8.8	46.2	8.3	15.7	40.5	92.2	64.9	154.8	2.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	12	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	10	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	17	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. E1	13	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E2	11	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA E1	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Leather tanning and finishing (SIC 3111)				Boot and shoe cut stock and findings (SIC 3131)	House slippers (SIC 3142)	Men's footwear, except athletic (SIC 3143)	Women's footwear, except athletic (SIC 3144)	Footwear, except rubber, n.e.c. (SIC 3149)
	Total	Tanneries (SIC 3111-11)	Converters (SIC 3111-22)	Contract tanneries (SIC 3111-33)					
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	99	(NA)	(NA)	(NA)	94	95	93	97	88
COVERAGE RATIO ² DO	99	(NA)	(NA)	(NA)	95	87	97	95	85
ESTABLISHMENTS, TOTAL NUMBER	517	301	76	140	248	91	221	422	183
WITH 1 TO 19 EMPLOYEES DO	294	154	64	76	127	25	24	106	50
WITH 20 TO 99 EMPLOYEES DO	148	89	8	51	106	40	32	84	36
WITH 100 EMPLOYEES OR MORE DO	75	58	4	13	15	26	165	232	97
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	25.7	18.5	1.4	5.9	8.7	8.5	61.5	77.4	28.7
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	200.0	150.7	12.0	37.3	50.1	48.1	358.2	408.3	158.1
PRODUCTION WORKERS:									
AVERAGE FOR YEAR 1,000	22.1	15.8	1.0	5.3	7.6	7.1	54.4	70.0	25.6
MARCH DO	22.5	16.2	1.0	5.3	7.5	6.8	53.8	69.4	25.1
MAY DO	22.8	16.3	1.1	5.4	7.7	7.2	54.4	71.7	25.8
AUGUST DO	22.4	16.0	1.0	5.5	7.6	7.3	54.9	71.6	26.2
NOVEMBER DO	20.5	14.7	1.0	4.8	7.6	7.3	54.5	67.1	25.3
MAN-HOURS MILLIONS	41.9	31.3	2.0	8.6	14.0	12.7	106.3	128.5	46.9
JANUARY-MARCH DO	10.7	8.1	.5	2.1	3.6	2.8	27.3	33.5	11.7
APRIL-JUNE DO	11.2	8.4	.5	2.3	3.6	3.3	27.4	33.7	12.2
JULY-SEPTEMBER DO	10.1	7.5	.5	2.1	3.4	3.3	25.4	30.7	11.4
OCTOBER-DECEMBER DO	9.9	7.3	.5	2.1	3.5	3.3	26.1	30.7	11.6
WAGES MILLION DOLLARS	151.3	114.4	7.2	29.8	37.1	33.4	288.9	334.2	124.9
COST OF MATERIALS, ETC., TOTAL DO	708.0	523.6	152.0	32.5	120.5	66.5	623.0	591.6	208.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	624.6	491.6	104.4	28.6	113.3	58.6	573.2	537.6	185.4
COST OF RESALES DO	12.3	10.9	1.4	(Z)	4.0	1.8	42.2	31.8	18.2
FUELS CONSUMED DO	10.3	8.1	.3	1.9	.6	.2	1.5	1.4	.5
PURCHASED ELECTRIC ENERGY DO	6.2	4.6	.3	1.3	1.1	.5	4.4	5.1	2.0
CONTRACT WORK DO	54.6	8.3	45.6	.7	1.5	5.2	1.7	15.8	2.0
VALUE OF SHIPMENTS, INCLUDING RESALES DO	1 059.5	786.7	182.9	89.9	206.5	151.4	1 288.9	1 346.1	485.9
VALUE OF RESALES DO	14.0	12.3	1.7	(Z)	4.5	1.9	53.8	44.2	18.3
VALUE ADDED BY MANUFACTURE DO	368.3	279.6	31.3	57.4	86.2	85.7	674.4	763.6	272.6
MANUFACTURERS' INVENTORIES:									
BEGINNING OF YEAR, TOTAL DO	127.6	98.4	22.2	7.0	20.7	21.8	166.9	124.7	77.8
FINISHED PRODUCTS DO	35.7	27.9	7.3	.6	7.0	11.8	82.3	47.2	43.1
WORK IN PROCESS DO	61.2	45.9	11.4	3.9	2.6	11.8	24.9	28.5	11.5
MATERIALS, SUPPLIES, FUEL, ETC. DO	30.6	24.6	3.5	2.5	11.1	8.2	59.7	49.2	23.1
END OF YEAR, TOTAL DO	149.0	119.0	23.0	7.0	21.2	23.6	193.0	141.7	75.5
FINISHED PRODUCTS DO	37.8	29.5	7.3	.9	6.9	12.2	84.9	52.1	37.0
WORK IN PROCESS DO	75.9	60.7	11.7	3.5	2.8	2.2	30.7	32.6	12.3
MATERIALS, SUPPLIES, FUEL, ETC. DO	35.3	28.8	3.9	2.6	11.5	9.3	77.4	57.0	26.1
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	17.4	12.7	1.3	3.4	3.0	1.7	14.9	15.8	8.1
NEW PLANT AND EQUIPMENT, TOTAL DO	16.3	11.9	1.3	3.0	2.9	1.7	14.3	14.8	6.4
NEW STRUCTURES AND ADDITIONS TO PLANT DO	3.6	2.6	.3	.7	.8	.7	2.9	2.9	1.5
NEW MACHINERY AND EQUIPMENT DO	12.7	9.4	1.0	2.3	2.1	1.0	11.4	11.9	5.0
USED PLANT AND EQUIPMENT DO	1.2	.7	(Z)	.5	.2	.1	.7	.9	1.7

(NA) Not available. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3111-- LEATHER TANNING AND FINISHING											
ESTABLISHMENTS, TOTAL.	517	25.7	200.0	22.1	41.9	151.3	368.3	708.0	1 059.5	16.3	149.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	155	.3	2.2	.2	.4	1.4	4.2	27.9	33.9	.5	4.3
5 TO 9 EMPLOYEES E4	70	.5	3.5	.4	.7	2.3	7.4	20.4	27.5	.3	3.5
10 TO 19 EMPLOYEES E1	69	.9	7.3	.7	1.4	4.4	15.2	62.0	75.9	.6	10.2
20 TO 49 EMPLOYEES E1	92	2.8	20.8	2.4	4.5	15.3	39.2	65.5	102.9	1.9	9.9
50 TO 99 EMPLOYEES	56	4.0	30.1	3.5	6.9	22.9	53.4	90.0	142.9	1.6	16.8
100 TO 249 EMPLOYEES	47	7.2	58.4	6.2	12.4	45.0	116.0	196.3	304.6	4.6	46.6
250 TO 499 EMPLOYEES	24	7.7	56.3	6.7	11.8	44.1	99.6	191.7	285.6	4.9	45.2
500 TO 999 EMPLOYEES	4	2.3	21.3	1.9	3.7	16.0	33.4	54.3	86.1	1.8	12.4
ESTABS. COVERED BY ADMIN. RECORD ¹ .	167	.5	4.0	.5	.9	2.8	7.8	18.0	25.8	.3	3.6
3111-11 TANNERIES											
ESTABLISHMENTS, TOTAL.	301	18.5	150.7	15.8	31.3	114.4	279.6	523.6	786.7	11.9	119.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	90	.1	1.1	.1	.2	.8	2.0	2.6	4.6	.1	1.7
5 TO 9 EMPLOYEES E6	36	.2	1.7	.2	.4	1.3	3.5	4.3	7.6	.2	1.1
10 TO 19 EMPLOYEES E3	28	.4	2.7	.3	.6	1.9	5.1	11.8	16.9	.2	1.6
20 TO 49 EMPLOYEES E1	53	1.6	12.0	1.4	2.6	8.6	22.5	40.3	61.7	1.1	6.4
50 TO 99 EMPLOYEES	36	2.6	20.3	2.3	4.6	15.5	35.9	66.0	101.4	1.1	14.8
100 TO 249 EMPLOYEES	37	13.4	112.9	11.4	22.8	86.2	210.6	398.7	594.4	9.3	94.5
250 TO 499 EMPLOYEES	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	99	.3	2.2	.3	.5	1.7	4.0	5.2	9.2	.2	1.4
3111-22 CONVERTERS											
ESTABLISHMENTS, TOTAL. E1	76	1.4	12.0	1.0	2.0	7.2	31.3	152.0	182.9	1.3	23.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E4	40	.1	.8	.1	.1	.3	2.2	25.1	28.7	(Z)	3.6
5 TO 9 EMPLOYEES E3	13	.1	.9	(Z)	.1	.3	2.7	15.4	18.0	(Z)	2.3
10 TO 19 EMPLOYEES E1	11	.1	1.7	.1	.2	.4	5.1	47.8	51.6	.3	8.3
20 TO 49 EMPLOYEES	6	1.1	8.5	.8	1.7	6.2	21.5	63.8	84.8	.9	8.8
50 TO 99 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	31	.1	.7	.1	.1	.3	2.5	12.1	14.6	(Z)	2.0
3111-33 CONTRACT TANNERIES											
ESTABLISHMENTS, TOTAL.	140	5.9	37.3	5.3	8.6	29.8	57.4	32.5	89.9	3.0	7.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	25	.1	.3	.1	.1	.3	(Z)	.2	.6	.6	.1
5 TO 9 EMPLOYEES E6	21	.1	1.0	.1	.3	.7	1.2	.7	1.9	(D)	.2
10 TO 19 EMPLOYEES E1	30	.4	2.9	.3	.6	2.1	5.0	2.4	7.4	(D)	.4
20 TO 49 EMPLOYEES	33	3.4	24.7	2.0	3.6	19.9	36.8	19.8	56.7	1.7	3.9
50 TO 99 EMPLOYEES	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	4	1.9	8.4	1.7	2.0	6.9	14.3	9.2	23.2	.8	2.5
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	37	.2	1.1	.2	.3	.9	1.3	.7	2.0	.1	.2
3131-- BOOT, SHOE CUT STOCK, AND FINDINGS											
ESTABLISHMENTS, TOTAL.	248	8.7	50.1	7.6	14.0	37.1	86.2	120.5	206.5	2.9	21.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	60	.1	.6	.1	.2	.5	.9	1.7	3.1	.2	.3
5 TO 9 EMPLOYEES E8	37	.3	1.4	.2	.4	1.0	2.5	3.1	5.7	.2	.5
10 TO 19 EMPLOYEES E2	30	.4	2.7	.4	.7	1.9	6.5	8.4	14.3	.2	1.7
20 TO 49 EMPLOYEES	63	2.0	11.7	1.8	3.3	8.5	21.0	26.6	47.5	.5	4.0
50 TO 99 EMPLOYEES	43	3.2	18.2	2.7	5.1	13.4	32.1	45.8	77.2	.5	7.7
100 TO 249 EMPLOYEES	12	2.7	15.5	2.3	4.4	11.7	23.3	34.8	58.8	1.4	6.9
250 TO 499 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	85	.4	1.9	.4	.6	1.5	4.3	5.1	9.3	.3	1.0
3142-- HOUSE SLIPPERS											
ESTABLISHMENTS, TOTAL.	91	8.5	48.1	7.1	12.7	33.4	85.7	66.5	151.4	1.7	23.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E3	15	(Z)	.1	(Z)	(Z)	.1	.5	.7	1.2	(Z)	.1
5 TO 9 EMPLOYEES	6	.1	.6	(Z)	.2	.3	2.2	6.1	8.2	.1	.9
10 TO 19 EMPLOYEES	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES E1	23	.8	4.0	.7	1.2	3.2	6.7	4.0	10.6	.1	1.1
50 TO 99 EMPLOYEES E1	17	1.1	6.3	1.0	1.7	4.7	9.5	9.1	18.8	.1	2.6
100 TO 249 EMPLOYEES	16	2.6	14.0	2.1	3.8	9.8	24.2	16.7	41.0	.5	5.6
250 TO 499 EMPLOYEES	10	3.8	22.9	3.2	5.9	15.2	42.7	29.9	71.6	.7	13.5
ESTABS. COVERED BY ADMIN. RECORD ¹ .	20	.1	.4	.1	.1	.3	.8	.6	1.4	(Z)	.2

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3143-- MEN'S FOOTWEAR, EXCEPT ATHLETIC											
ESTABLISHMENTS, TOTAL,	221	61.5	358.2	54.4	106.3	288.9	674.4	623.0	1 288.9	14.3	193.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	10	(Z)	.1	(Z)	(Z)	.1	-1.3	.2	.4	(Z)	(Z)
5 TO 9 EMPLOYEES E8	10	.2	.7	.2	.2	.5	1.1	.8	1.9	(Z)	.2
10 TO 19 EMPLOYEES E4	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES E5	20	.6	3.4	.5	1.0	2.8	5.7	2.9	8.5	.1	1.3
50 TO 99 EMPLOYEES E1	12	.8	4.2	.7	1.3	3.2	7.8	5.6	13.3	.1	3.0
100 TO 249 EMPLOYEES E1	56	9.5	53.8	8.5	15.9	43.5	95.7	84.9	181.3	2.1	25.1
250 TO 499 EMPLOYEES E1	79	29.1	162.8	26.6	50.4	138.9	317.8	296.8	608.6	6.2	75.9
500 TO 999 EMPLOYEES E1	28	21.4	133.2	17.9	37.6	99.8	247.6	232.0	475.0	5.7	87.6
1,000 TO 2,499 EMPLOYEES E1	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	18	.1	.5	.1	.2	.4	.8	.6	1.4	(Z)	.2
3144-- WOMEN'S FOOTWEAR, EXCEPT ATHLETIC											
ESTABLISHMENTS, TOTAL,	422	774	408.3	70.0	128.5	334.2	763.6	591.6	1 346.1	14.8	141.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	49	.1	.4	.1	.1	.4	1.2	1.0	2.2	(Z)	.2
5 TO 9 EMPLOYEES E8	27	.2	.9	.2	.3	.8	1.7	1.3	3.0	.5	.3
10 TO 19 EMPLOYEES E4	30	.4	2.4	.3	.6	1.6	5.3	4.8	10.4	(D)	1.1
20 TO 49 EMPLOYEES E5	39	1.3	6.8	1.1	2.4	5.4	10.8	8.4	19.2	.4	2.0
50 TO 99 EMPLOYEES E1	45	3.3	16.8	2.9	5.1	12.8	29.5	23.2	52.6	1.2	7.1
100 TO 249 EMPLOYEES E1	94	16.0	79.3	14.4	25.5	62.5	136.0	110.7	243.9	2.5	27.4
250 TO 499 EMPLOYEES E1	118	42.6	224.7	38.9	71.8	191.3	452.7	326.0	777.2	6.2	69.5
500 TO 999 EMPLOYEES E1	18	13.7	77.0	12.0	22.6	59.5	126.5	116.4	237.7	3.9	34.2
1,000 TO 2,499 EMPLOYEES E1	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	47	.2	1.0	.2	.3	.8	2.2	1.8	4.0	(Z)	.5
3149-- FOOTWEAR, EXCEPT RUBBER, NEC											
ESTABLISHMENTS, TOTAL,	183	28.7	158.1	25.6	46.9	124.9	272.6	208.0	485.9	6.4	75.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	27	(Z)	.2	(Z)	.1	.2	.4	.3	.8	(Z)	.1
5 TO 9 EMPLOYEES E8	13	.1	.4	.1	.2	.4	.8	.7	1.5	(Z)	.2
10 TO 19 EMPLOYEES E4	10	.1	.7	.1	.2	.6	1.1	.8	1.9	(Z)	.3
20 TO 49 EMPLOYEES E5	17	.5	3.3	.4	.8	2.7	4.7	3.1	7.9	.1	.9
50 TO 99 EMPLOYEES E1	18	1.4	7.2	1.2	2.1	5.6	11.2	9.0	19.8	.5	3.5
100 TO 249 EMPLOYEES E1	50	8.3	40.7	7.5	13.2	32.7	66.9	52.3	119.5	2.0	19.5
250 TO 499 EMPLOYEES E1	43	14.7	81.1	13.2	24.3	65.6	155.4	109.1	265.6	2.7	40.8
500 TO 999 EMPLOYEES E1	4	3.5	24.6	3.0	6.0	17.2	32.0	32.4	69.0	1.0	10.1
1,000 TO 2,499 EMPLOYEES E1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	42	.2	1.0	.2	.3	.8	1.8	1.4	3.2	(Z)	.4

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3111	LEATHER TANNING AND FINISHING										
	ENTIRE INDUSTRY	517	25.7	200.0	22.1	41.9	151.3	368.3	708.0	1 059.5	10.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	500	24.7	192.1	21.2	40.2	146.0	352.5	689.5	1 025.9	10.0
31111	FINISHED CATTLE HIDE AND KIP SIDE LEATHERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	130	14.7	124.1	12.4	24.9	92.7	238.8	520.6	744.7	10.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	110	12.0	102.7	10.3	20.7	77.7	200.4	451.1	638.9	8.8
31112	FINISHED CALF AND WHOLE KIP LEATHERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	.9	7.1	.8	1.5	5.8	13.1	21.8	34.3	.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31113	FINISHED SHEEP AND LAMB LEATHER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	23	1.3	9.2	1.1	1.9	6.6	17.6	46.1	62.4	.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	18	.8	5.9	.7	1.3	4.2	13.1	29.0	41.7	.2
31114	OTHER FINISHED LEATHERS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	13	1.3	6.9	1.1	1.5	4.9	13.9	21.9	35.7	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31115	ROUGH, RUSSET, AND CRUST LEATHER (NOT FINISHED) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	9	.5	3.6	.5	.9	2.9	8.6	20.3	28.4	.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31119	CONTRACT RECEIPTS, TANNING, FINISHING LEATHER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	120	4.9	33.5	4.3	7.6	26.9	49.5	27.6	77.6	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	119	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3111	LEATHER TANNING AND FINISHING, TANNERIES										
11	ENTIRE SUBINDUSTRY	301	18.5	150.7	15.8	31.3	114.4	279.6	523.6	786.7	11.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	295	17.8	145.2	15.3	30.3	110.9	266.9	506.5	757.7	11.7
31111	FINISHED CATTLE HIDE AND KIP SIDE LEATHERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	108	13.6	114.3	11.5	23.1	86.3	215.3	405.3	606.4	9.2
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	91	11.0	93.6	9.4	19.1	71.7	178.6	339.3	505.6	7.7
31112	FINISHED CALF AND WHOLE KIP LEATHERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	.9	7.1	.8	1.5	5.8	13.1	21.8	34.3	.6
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31113	FINISHED SHEEP AND LAMB LEATHER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	16	1.2	8.6	1.0	1.9	6.4	15.1	36.9	50.8	.3
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	11	.8	5.3	.7	1.2	3.9	10.6	19.8	30.2	.2
31114	OTHER FINISHED LEATHERS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	8	.7	6.1	.6	1.3	4.6	10.0	14.4	24.4	.4
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	6	.6	5.5	.6	1.2	4.1	8.8	13.1	22.0	.4
31115	ROUGH, RUSSET, AND CRUST LEATHER (NOT FINISHED) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	8	.5	3.4	.4	.8	2.7	7.9	16.5	24.0	.2
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	7	.4	2.7	.3	.6	2.1	6.0	14.3	19.9	.2
31119	CONTRACT RECEIPTS, TANNING, FINISHING LEATHER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	.1	1.1	.1	.2	.8	1.5	1.2	2.7	(Z)
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	4	.1	1.1	.1	.2	.8	1.5	1.2	2.7	(Z)
3111	LEATHER TANNING AND FINISHING, CONVERTERS										
22	ENTIRE SUBINDUSTRY	76	1.4	12.0	1.0	2.0	7.2	31.3	152.0	182.9	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	76	1.4	12.0	1.0	2.0	7.2	31.3	152.0	182.9	1.3
31111	FINISHED CATTLE HIDE AND KIP SIDE LEATHERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	20	1.1	9.2	.8	1.6	6.0	22.1	113.7	135.4	1.1
22	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	19	1.1	9.2	.8	1.6	6.0	21.8	111.8	133.3	1.1
31113	FINISHED SHEEP AND LAMB LEATHER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	7	.1	.6	(Z)	.1	.2	2.5	9.2	11.5	(D)
22	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	7	.1	.6	(Z)	.1	.2	2.5	9.2	11.5	(D)
31114	OTHER FINISHED LEATHERS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	(Z)	.5	(Z)	.1	.1	1.9	5.9	8.2	(D)
22	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	4	(Z)	.5	(Z)	.1	.1	1.9	5.9	8.2	(D)
31115	ROUGH, RUSSET, AND CRUST LEATHER (NOT FINISHED) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3111	LEATHER TANNING AND FINISHING, CONTRACT TANNERS										
33	ENTIRE SUBINDUSTRY	140	5.9	37.3	5.3	8.6	29.8	57.4	32.5	89.9	3.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	129	5.5	35.0	5.0	8.0	27.9	54.3	31.0	85.3	2.9
31111	FINISHED CATTLE HIDE AND KIP SIDE LEATHERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33	OTHER FINISHED LEATHERS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3111	LEATHER TANNING AND FINISHING, CONTRACT TANNERS--CONTINUED										
31119	CONTRACT RECEIPTS, TANNING, FINISHING LEATHER										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	116	4.7	32.4	4.2	7.3	26.1	48.1	26.4	74.9	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	115	4.7	32.3	4.2	7.3	26.0	47.8	26.3	74.6	2.8
3131	BOOT, SHOE CUT STOCK AND FINDINGS										
	ENTIRE INDUSTRY	248	8.7	50.1	7.6	14.0	37.1	86.2	120.5	206.5	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	235	7.7	44.1	6.7	12.4	33.1	76.7	106.4	182.9	2.5
3142	HOUSE SLIPPERS										
	ENTIRE INDUSTRY	91	8.5	48.1	7.1	12.7	33.4	85.7	66.5	151.4	1.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	81	7.0	40.3	5.8	10.4	27.4	73.1	57.9	131.2	.9
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC										
	ENTIRE INDUSTRY	221	61.5	358.2	54.4	106.3	288.9	674.4	623.0	1 288.9	14.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	189	53.6	318.2	47.8	91.2	256.6	596.3	556.0	1 144.6	12.2
31431	MEN'S DRESS SHOES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	106	35.9	212.3	32.3	61.5	174.2	406.1	339.9	745.9	8.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	64	22.6	137.9	20.3	38.8	113.2	256.8	220.6	477.4	5.0
31432	MEN'S CASUAL SHOES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	23	4.0	21.5	3.8	7.0	18.1	37.1	35.2	72.5	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	12	1.1	5.5	1.0	1.9	4.7	10.7	8.8	19.4	.1
31433	MEN'S WORK SHOES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	48	16.0	95.0	14.1	27.0	73.8	173.1	194.7	359.7	3.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	44	14.2	83.9	12.4	23.8	65.5	148.8	176.9	318.8	2.1
31434	MEN'S DRESS AND CASUAL BOOTS, EXCEPT WORK										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	3.8	22.8	3.3	6.5	17.8	40.9	34.6	73.3	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	11	2.8	17.0	2.3	4.7	12.9	30.2	25.8	54.0	1.2
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC										
	ENTIRE INDUSTRY	422	77.4	408.3	70.0	128.5	334.2	763.6	591.6	1 346.1	14.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	386	69.9	370.8	63.3	116.6	304.2	705.9	540.3	1 236.3	13.3
31441	WOMEN'S SHOES, FLATS										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	41	9.6	49.0	8.9	15.8	41.1	79.4	71.5	150.7	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	26	4.6	23.8	4.2	7.5	19.4	37.7	32.0	69.7	.3
31442	WOMEN'S SHOES, LOW HEEL										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	116	34.6	184.8	31.1	58.6	151.5	352.2	271.8	617.6	6.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	62	17.1	90.4	15.4	29.3	75.4	198.9	140.6	330.3	3.5
31443	WOMEN'S SHOES, MEDIUM HEEL										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	67	18.7	104.2	16.8	31.1	85.3	214.6	156.9	370.8	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	37	9.1	50.4	8.1	14.8	39.3	80.3	63.9	144.7	2.1
31444	WOMEN'S SHOES, HIGH HEEL										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	9	1.5	8.0	1.3	2.2	6.2	11.8	8.7	20.6	.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	5	.7	4.5	.7	1.0	3.4	7.4	4.8	12.0	.1
31445	WOMEN'S BOOTS										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	22	4.2	21.1	3.8	6.3	16.3	36.9	39.4	76.1	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	18	2.8	14.4	2.5	4.3	11.1	26.3	28.1	54.4	.3
3149	FOOTWEAR, EXCEPT RUBBER, NEC										
	ENTIRE INDUSTRY	183	28.7	158.1	25.6	46.9	124.9	272.6	208.0	485.8	6.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	157	23.8	132.4	21.0	38.4	102.6	226.5	171.7	403.0	5.7
31491	YOUTH'S AND BOYS' SHOES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	22	4.6	23.8	4.3	8.0	20.7	40.1	32.9	73.1	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	6	1.1	5.2	1.0	1.9	4.5	8.3	8.3	16.9	.3
31492	MISS'S AND CHILDREN'S SHOES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	61	15.8	86.1	14.0	25.6	67.2	143.7	111.6	263.2	2.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	24	6.1	30.6	5.4	9.8	24.6	50.9	35.5	88.3	1.1
31493	INFANTS' AND BABIES' SHOES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	28	3.9	23.2	3.5	6.4	17.8	40.8	24.8	65.1	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	22	2.2	12.7	1.9	3.4	9.5	20.5	12.7	33.3	.3
31494	ALL OTHER FOOTWEAR, EXC. RUBBER, SLIPPERS										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	28	4.0	23.2	3.5	6.3	17.6	45.0	36.2	79.3	2.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3111	Leather tanning and finishing.....1972..	1,059.5	1,018.2	11.2	30.1	99	1,026.4	1,018.2	8.2	99
	.....1967..	870.1	838.9	14.2	17.0	98	846.2	838.9	7.3	99
3131	Boot and shoe cut stock and findings.....1972..	206.5	186.9	11.5	8.1	94	196.1	186.9	9.2	95
	.....1967..	262.8	235.3	15.2	12.3	94	254.3	235.3	19.0	93
3142	House slippers.....1972..	151.4	138.8	5.4	7.2	95	159.4	138.8	20.6	87
	.....1967..	181.0	151.2	12.4	17.4	92	162.3	151.2	11.1	93
3143	Men's footwear, except athletic.....1972 ¹ .	1,288.9	1,145.0	87.7	56.2	93	1,181.4	1,145.0	36.4	97
	.....1967 ¹ .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3144	Women's footwear, except athletic.....1972 ¹ .	1,346.1	1,240.2	36.8	69.1	97	1,305.5	1,240.2	65.3	95
	.....1967 ¹ .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3149	Footwear, except rubber, n.e.c.....1972 ¹ .	485.9	408.7	53.2	24.0	88	479.1	408.7	70.4	85
	.....1967 ¹ .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

¹See text regarding discussion on new SIC classification for 1972.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Leather tanning and finishing (SIC 3111)	Boot and shoe cut stock and findings (SIC 3131)	House slippers (SIC 3142)	Men's footwear, except athletic (SIC 3143)	Women's footwear, except athletic (SIC 3144)	Footwear, except rubber, n.e.c. (SIC 3149)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	1,059.5	206.5	151.4	1,288.9	1,346.1	485.9	(X)
3111-	Leather tanning and finishing.....	1,026.4	1,018.2	2.8	-	-	-	-	5.4
31111	Finished cattle hide and kip side leathers.....	684.1	678.3	(2.5)	-	-	-	-	(2-5)
31112	Finished calf and whole kip leathers.....	35.1	35.1	-	-	-	-	-	-
31113	Finished sheep and lamb leathers.....	54.7	(50-100)	-	-	-	-	-	(under 2)
31114	Other finished leathers, n.e.c.....	47.9	(20-50)	-	-	-	-	-	(under 2)
31115	Rough, russet, and crust leather (not finished in same est.)	51.8	51.8	-	-	-	-	-	-
31119	Contract and commission receipts for tanning and finishing leather owned by others.....	87.0	87.0	-	-	-	-	-	-
31110	All other finished and rough leather, n.s.k.....	65.8	63.9	(under 2)	-	-	-	-	(under 2)
3131-	Boot and shoe cut stock and findings.....	196.1	2.5	186.9	(under 2)	(under 2)	-	-	6.5
3142-	House slippers.....	159.4	-	-	138.8	4.8	4.1	3.6	8.1
3143-	Men's footwear, except athletic.....	1,181.4	-	-	(2-5)	1,145.0	15.7	17.9	(under 2)
31431	Men's dress shoes.....	616.9	-	-	(under 2)	604.4	2.4	9.8	-
31432	Men's casual shoes.....	97.1	-	-	2.5	81.1	8.3	5.2	-
31433	Men's workshoes.....	309.5	-	-	-	303.8	(2-5)	1.5	(under 2)
31434	Men's dress and casual boots, except work.....	154.1	-	-	(under 2)	151.9	(under 2)	1.4	-
31430	Men's footwear, n.s.k.....	3.7	-	-	-	3.7	-	-	-
3144-	Women's footwear, except athletic.....	1,305.5	(under 2)	(under 2)	(2-5)	31.1	1,240.2	29.2	(10-20)
31441	Women's shoes, flats.....	195.0	-	-	(2-5)	(10-20)	165.3	13.9	-
31442	Women's shoes, low heel.....	563.0	-	-	-	4.8	545.9	12.3	-
31443	Women's shoes, medium heel.....	350.8	-	-	-	(2-5)	346.6	(under 2)	-
31444	Women's shoes, high heel.....	45.7	-	-	-	(under 2)	(20-50)	-	-
31445	Women's boots.....	102.6	-	-	-	9.1	89.2	(2-5)	(2-5)
31444	Women's footwear, n.s.k.....	48.4	(under 2)	(under 2)	-	-	47.7	-	(under 2)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Leather tanning and finishing (SIC 3111)	Boot and shoe cut stock and findings (SIC 3131)	House slippers (SIC 3142)	Men's footwear, except athletic (SIC 3143)	Women's footwear, except athletic (SIC 3144)	Footwear, except rubber, n.e.c. (SIC 3149)	Other industries
Shipments and miscellaneous receipts--Continued									
3149	Footwear, except rubber, n.e.c.....	479.1	-	-	(under 2)	50.7	16.8	408.7	(2-5)
31491	Youths' and boys' shoes.....	103.8	-	-	-	27.8	3.0	73.0	-
31492	Misses' and children's shoes.....	206.4	-	-	(under 2)	(5-10)	11.4	187.5	-
31493	Infants' and babies' shoes.....	78.8	-	-	-	(under 2)	(under 2)	76.6	(under 2)
31494	All other footwear, except rubber and slippers.....	86.7	-	-	-	14.5	(under 2)	68.2	(2-5)
31490	Footwear, n.s.k.....	3.4	-	-	-	-	-	3.4	-
Other product shipments by 4-digit product group:									
2295-	Coated fabrics, not rubberized.....	(X)	(2-5)	(under 2)	-	-	-	-	-
3069-	Fabricated rubber products, n.e.c.....	(X)	-	2.7	-	-	-	-	-
3199-	Leather goods, n.e.c.....	(X)	(2-5)	-	-	(under 2)	-	-	-
	Other secondary products.....	(X)	4.1	3.9	-	(under 2)	(under 2)	2.5	(X)
	Miscellaneous receipts.....	(X)	30.1	8.1	7.2	56.2	69.1	24.0	(X)
93000	Other contract receipts.....	(X)	6.0	3.4	5.3	1.3	24.7	5.7	(X)
99989	Resales.....	(X)	14.0	4.5	1.9	53.8	44.2	18.3	(X)
99980	Other miscellaneous receipts.....	(X)	10.1	.2	-	1.1	.2	-	(X)
Listing of the other industries with over \$2 million shipments of the primary product									
3111-	3949 Sporting and athletic goods, n.e.c.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(2-5)
3131-	3069 Fabricated rubber products, n.e.c.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(2-5)
3142-	3021 Rubber and plastics footwear.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(5-10)
3144-	3021 Rubber footwear.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (NA) Not available.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3111--	TANNED AND FINISHED LEATHER, TOTAL.....		(X)	1,026.4	(X)	846.2
31111--	Finished Cattle Hide and Kip Side Leathers.....	Mil. sq. ft...	1,125.0	684.1	1,064.3	495.7
	Grains, except offal and wetting leather (heads, shoulders, bellies, etc.):					
31111 15	Sole leather.....	...do.....	98.7	64.1	151.7	83.3
31111 33	Bag, case, and strap leather (sides).....	...do.....	32.0	25.1	39.3	21.7
31111 35	Upholstery leather--top grains and machine buffs (hides).....	...do.....	38.2	38.6	29.2	18.9
31111 37	Upper leather, excluding patent (sides).....	...do.....	556.4	352.4	528.0	256.5
31111 41	Patent leather (sides).....	...do.....	85.1	51.9	20.9	13.5
31111 47	Other grains, including flat and handbag leather, lining leather (sides), garment leather (sides), and belting and mechanical leather.....	...do.....	140.1	85.4	80.1	39.0
31111 55	Offal (heads, shoulders, bellies, etc.), except splits and wetting leather but including sole leather, waist belt leather, and wetting leather grains.....	...do.....	37.3	17.8	60.8	24.0
31111 67	Finished splits, including shoulder splits, deep buffs, buffing, and fleshers.....	...do.....	136.1	44.2	150.2	36.9
31111 00	Finished cattle hide and kip side leathers, n.s.k.....	...do.....	67.6	4.6	4.1	1.9
31112--	Finished Calf and Whole Kip Leathers:					
31112 11	Finished all calf and whole kip leathers.....	...do.....	34.8	35.1	44.2	35.6

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3111- --	Tanned and Finished Leather--Continued					
31113 --	Finished Sheep and Lamb Leathers.....	Mil. sq. ft...	111.6	54.7	168.3	60.9
31113 31	Garment.....	...do.....	72.8	35.6	99.9	37.3
31113 41	Other, including glove, shoe, fleshers, skivers, and shearlings.	...do.....	35.9	17.7	68.4	23.6
31113 00	Finished sheep and lamb leathers, n.s.k.....	...do.....	2.9	1.4	-	-
31114 --	Other Finished Leathers, N.E.C.....	...do.....	107.7	47.9	142.9	75.3
31114 15	Goat and kid leathers.....	...do.....	25.4	15.0	73.8	44.2
31114 31	Other animal leathers, including cabretta, horse, colt, mule, ass, and pony leathers.....	...do.....	74.8	29.9	64.4	28.7
31114 00	Other finished leathers, n.e.c., n.s.k.....	...do.....	7.5	3.0	4.7	2.4
31115 --	Rough, Russet, and Crust Leather (Not Finished in Same Establishment).....		(X)	51.8	(X)	30.5
31115 31	Rough, Russet and Crust Leather, not finished in same establishment.....		(X)	51.8	(X)	30.5
31110 00	All other finished and rough leathers, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	42.0	(X)	25.4
31110 02	All other finished and rough leathers, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	23.8	(X)	9.7
31119 11	Receipts for contract finishing and tanning done for others on their materials.....		(X)	87.0	(X)	113.1
3131- --	BOOT AND SHOE CUT STOCK AND FINDINGS, TOTAL ¹		(X)	196.1	(X)	254.3
31310 16	Outer soles and innersoles.....	Million dozen pairs.....	9.3	52.8	(X)	80.4
31310 31	Other cut stock (heels, counters, box toes, taps, etc.).....		(X)	50.9	(X)	61.3
31310 61	Other boot and shoe cut stock and findings (wood heel blocks made for sale as finished wood heels, shanks, welting, etc.).....		(X)	67.8	(X)	80.9
31310 00	Footwear cut stock, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	15.2	(X)	25.0
31310 02	Footwear cut stock, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	9.4	(X)	6.7
3142- --	HOUSE SLIPPERS:					
31420 --	House Slippers ^{2 3}	Million pairs.	99.4	159.4	98.3	162.3
31420 60	House slippers, except slipper socks.....	...do.....	94.7	154.3	98.3	162.3
31420 71	Slipper socks, made from purchased socks.....	...do.....	3.8	3.7		
31420 02	House slippers, n.s.k., for companies with less than 10 employees. (See note.).....		0.9	1.4	(X)	(X)
3143- --	MEN'S FOOTWEAR, EXCEPT ATHLETIC, TOTAL ^{2 3}	Million pairs.	125.6	1,181.4	123.1	984.4
31431 --	Men's Dress Shoes:					
31431 11	Men's dress shoes, except boots.....	...do.....	64.1	616.9		
31431 15	Welt.....	...do.....	25.9	298.4		
31431 21	Direct molded.....	...do.....	4.4	24.2		
31431 25	Hand sewn.....	...do.....	.9	10.9		
31431 29	Cements.....	...do.....	31.0	267.4		
31431 29	Other.....	...do.....	1.9	16.0		
31432 --	Men's Casual Shoes:					
31432 43	Men's casual shoes, except boots.....	...do.....	15.9	97.1	187.0	1669.4
31432 45	Welt.....	...do.....	.4	2.8		
31432 51	Direct molded.....	...do.....	.7	2.7		
31432 55	Cements and littleway.....	...do.....	7.0	47.0		
31432 61	Hand sewn.....	...do.....	1.0	7.7		
31432 65	Stitchout and stitchdown.....	...do.....	3.0	16.1		
31432 69	Sandals.....	...do.....	1.2	4.3		
31432 69	Other.....	...do.....	2.6	16.5		
31433 --	Men's Work Shoes.....	...do.....	31.8	309.5		
31433 13	Welt.....	...do.....	21.8	231.3		
31433 23	Direct molded.....	...do.....	6.6	53.5	36.1	315.0
31433 33	Cements.....	...do.....	1.5	13.1		
31433 98	Other.....	...do.....	1.9	11.6		
31434 --	Men's Dress and Casual Boots, Except Work:					
31434 71	Men's dress and casual boots (not work), ankle height or higher.	...do.....	13.4	154.1		
31434 73	Welt.....	...do.....	7.4	109.0		
31434 75	Direct molded.....	...do.....	2.1	12.2	(1)	(1)
31434 79	Cements.....	...do.....	3.2	26.5		
31434 79	Other.....	...do.....	.7	6.4		
31430 00	Men's footwear, n.s.k., for companies with 10 employees or more. (See note.).....	...do.....	5.2	2.3	(X)	(6)
31430 02	Men's footwear, n.s.k., for companies with less than 10 employees. (See note.).....	...do.....	5.2	1.4	(X)	(6)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3144- --	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC, TOTAL ² ³	Million pairs.	213.4	1,305.5	260.5	1,249.1
31441 --	Women's Shoes, Flats:					
	Flats, 7/8 and down.....	..do.....	41.4	195.0		
31441 11	Cements.....	..do.....	26.8	123.9		
31441 15	Stitchout and stitchdown.....	..do.....	2.2	11.3		
31441 23	Slip-lasted.....	..do.....	2.6	9.3		
31441 25	Direct molded.....	..do.....	.3	1.9		
31441 27	Tru moc, handsewns and littleway.....	..do.....	4.9	22.5		
31441 28	Sandals.....	..do.....	2.4	10.6		
31441 29	Other.....	..do.....	2.2	15.5		
31442 --	Women's Shoes, Low Heel:					
	Low heels, 8/8 - 14/8.....	..do.....	94.6	563.0		
31442 31	Cements.....	..do.....	72.6	453.4	260.5	1,249.1
31442 34	Stitchout and stitchdown.....	..do.....	2.0	15.2		
31442 37	Slip-lasted.....	..do.....	2.8	13.1		
31442 41	Direct molded.....	..do.....	3.4	7.5		
31442 43	Tru moc, handsewns and littleway.....	..do.....	4.5	23.4		
31442 45	Sandals.....	..do.....	6.2	27.1		
31442 49	Other.....	..do.....	3.1	23.3		
31443 --	Women's Shoes, Medium Heel:					
	Medium heel, 15/8 - 19/8.....	..do.....	51.3	350.8		
31443 51	Cements.....	..do.....	45.4	320.3		
31443 59	Other.....	..do.....	5.9	30.5		
31444 --	Women's Shoes, High Heel:					
	High heels, 20/8 and up.....	..do.....	^e 6.6	45.7		
31444 61	Cements.....	..do.....	6.5	44.6		
31444 69	Other.....	..do.....	.1	1.1		
31444 00	High heels, not specified by kind.....	..do.....	-	-	260.5	1,249.1
31445 --	Women's Boots.....	..do.....	11.8	102.6		
31445 71	Cements.....	..do.....	10.7	90.3		
31445 79	Other.....	..do.....	1.1	12.3		
31440 00	Women's footwear, n.s.k. (for companies with 10 employees or more)	..do.....	⁵ 6.9	43.4	⁵ 75.9	730.6
31440 02	Women's footwear, n.s.k. (for companies with less than 10 employees)	..do.....	⁵ .8	5.0	⁵ 71.7	75.3
3149- --	FOOTWEAR, EXCEPT RUBBER, N.E.C., TOTAL ² ³.....	..do.....	122.4	479.1	121.2	396.8
31491 --	Youths' and Boys' Shoes.....	..do.....	22.2	103.8	25.2	100.1
31491 11	Welt.....	..do.....	1.9	15.7		
31491 21	Direct molded.....	..do.....	7.7	21.3	(NA)	(NA)
31491 31	Cements.....	..do.....	10.9	59.8		
31491 98	Other.....	..do.....	1.7	7.0		
31492 --	Misses' and Children's Shoes.....	..do.....	53.1	206.4	57.5	186.7
	Misses'.....	..do.....	25.5	95.7		
31492 11	Welt.....	..do.....	1.9	15.0		
31492 15	Direct molded.....	..do.....	7.5	16.5	(NA)	(NA)
31492 17	Cements.....	..do.....	14.9	60.4		
31492 19	Other.....	..do.....	1.2	3.8		
	Children's.....	..do.....	27.6	110.7		
31492 43	Welt.....	..do.....	2.7	19.6		
31492 45	Direct molded.....	..do.....	9.8	28.7	(NA)	(NA)
31492 47	Cements.....	..do.....	13.8	58.3		
31492 49	Other.....	..do.....	1.3	4.1		
31493 --	Infants' and Babies' Shoes.....	..do.....	25.9	78.8	29.3	69.6
31493 11	Welt.....	..do.....	4.8	24.8		
31493 15	Direct molded.....	..do.....	2.8	5.6	(NA)	(NA)
31493 19	Other.....	..do.....	18.3	48.4		
31494 --	All Other Footwear, Except Rubber and Slippers.....	..do.....	20.3	86.7	9.2	40.4
31494 00	All other footwear (except rubber footwear, shoes with skates attached, or slippers), including beach slippers, theatrical, and all athletic shoes, etc.....	..do.....	20.3	86.7	9.2	40.4
31490 00	Footwear n.s.k., for companies with 10 employees or more. (See note.).....	..do.....	⁵ 1	.2	5.9	⁸ 30.6
31490 02	Footwear n.s.k., for companies with less than 10 employees. (See note.).....	..do.....	⁵ .8	3.2	1.7	⁸ 5.3

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

Footnotes continued on next page.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A)—Continued

- Represents zero. (X) Not applicable. (NA) Not available. ^eQuantity for this item estimated based on the unit price relationship for all other items of this product class.

¹More detailed statistics for 1967 are shown in Volume II, Industry Statistics, Part 2, 1967 Census of Manufactures.

²For 1972, monthly production figures were collected and published in Current Industrial Reports Series M31A, Shoes and Slippers. The 1967 data are shown in CIR Summary, Shoes and Slippers, for 1967.

³For 1972, annual production figures were collected and published in Current Industrial Reports Series MA-31A, Footwear Production by Manufacturers' selling price. For 1971 and earlier periods, detailed information is available by type of construction, age, and sex in this same series.

⁴For 1967, separate information was not listed for dress and casual boots; such data were reported in dress and casual shoes.

⁵Quantities estimated using the average unit-value reported by other shoe-producing companies reporting both quantity and value of shipments.

⁶With the breakout of three separate industries for 1972, data are included in the report entitled, "Footwear, Except Rubber, N.E.C.," SIC code 3149.

⁷These data represent the total, n.s.k., as estimated for plants coded to SIC code 3141 in 1967 and are shown in three separate industries: 3143, Men's Footwear, Except Athletic; 3144, Women's Footwear, Except Athletic; and 3149, Footwear, Except Rubber, N.E.C., for 1972. The 1967 consolidated n.s.k. for industry 3141 has not been included in the new industry total.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
FINISHED CATTLE HIDE AND KIP SIDE LEATHER (31111)			FINISHED CALF AND WHOLE KIP LEATHERS (31112)—Con.		
United States.....	684.1	495.7	North Central Region.....	EE	17.0
Northeast Region.....	319.3	209.5	East North Central Division.....	CC	17.0
New England Division.....	186.7	118.6	Wisconsin.....	CC	CC
Maine.....	69.1	22.3	West North Central Division.....	AA	(NA)
New Hampshire.....	FF	CC	Iowa.....	AA	(NA)
Vermont.....	CC	BB	West Region.....	EE	(NA)
Massachusetts.....	81.0	84.8	Pacific Division.....	EE	(NA)
Middle Atlantic Division.....	132.6	90.8	California.....	EE	(NA)
New York.....	26.7	18.7			
New Jersey.....	46.9	41.2	FINISHED SHEEP AND LAMB LEATHERS (31113)		
Pennsylvania.....	59.1	31.0	United States.....	54.7	60.9
North Central Region.....	215.1	186.7	Northeast Region.....	46.1	54.7
East North Central Division.....	GG	169.1	New England Division.....	30.5	39.1
Ohio.....	CC	BB	New Hampshire.....	CC	BB
Illinois.....	47.4	42.4	Massachusetts.....	FF	FF
Michigan.....	EE	23.4	Middle Atlantic Division.....	15.6	15.6
Wisconsin.....	120.1	99.2	New York.....	FF	EE
West North Central Division.....	FF	17.6	North Central Region.....	4.4	3.4
Minnesota.....	EE	EE	East North Central Division.....	BB	3.4
Missouri.....	BB	4.9	Wisconsin.....	BB	BB
South Region.....	114.4	82.6	West North Central Division.....	AA	(NA)
South Atlantic Division.....	52.7	42.0	South Region.....	BB	AA
Delaware.....	EE	BB	South Atlantic Division.....	AA	AA
Maryland.....	BB	BB	North Carolina.....	AA	AA
Virginia.....	EE	EE	West Region.....	BB	AA
West Virginia.....	CC	16.3	Pacific Division.....	BB	AA
North Carolina.....	BB	BB	California.....	BB	AA
Georgia.....	CC	BB			
East South Central Division.....	60.9	39.7	OTHER FINISHED LEATHERS, N.E.C. (31114)		
Kentucky.....	12.5	EE	United States.....	47.9	75.2
Tennessee.....	48.4	FF	Northeast Region.....	29.7	49.0
West Region.....	35.2	17.0	New England Division.....	14.1	25.3
Pacific Division.....	FF	17.0	New Hampshire.....	BB	(NA)
Oregon.....	AA	(NA)	Massachusetts.....	EE	FF
California.....	32.5	16.3	Middle Atlantic Division.....	15.6	23.8
			New York.....	CC	11.4
FINISHED CALF AND WHOLE KIP LEATHERS (31112)			New Jersey.....	7.4	CC
United States.....	35.1	35.6	Pennsylvania.....	BB	BB
Northeast Region.....	CC	17.2	North Central Region.....	EE	EE
New England Division.....	CC	EE	East North Central Division.....	EE	EE
Massachusetts.....	CC	EE	Michigan.....	CC	CC
Middle Atlantic Division.....	4.1	CC	West North Central Division.....	BB	(NA)
New Jersey.....	BB	AA	Iowa.....	BB	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER FINISHED LEATHERS, N.E.C. (31114)--Continued			MEN'S FOOTWEAR, EXCEPT ATHLETIC (31431)--Continued		
South Region.....	BB	EE	North Central Region.....	235.0	(NA)
South Atlantic Division.....	BB	EE	East North Central Division.....	GG	(NA)
Delaware.....	BB	EE	Ohio.....	AA	(NA)
East South Central Division.....	AA	(NA)	Illinois.....	GG	(NA)
Tennessee.....	AA	(NA)	Michigan.....	BB	(NA)
			Wisconsin.....	GG	(NA)
ROUGH, RUSSET, AND CRUST LEATHER (NOT FINISHED) (31115)			West North Central Division.....	GG	(NA)
United States.....	51.8	30.6	Missouri.....	GG	(NA)
Northeast Region.....	CC	6.6	South Region.....	156.0	(NA)
New England Division.....	2.6	3.7	South Atlantic Division.....	45.0	(NA)
Maine.....	AA	AA	Maryland.....	CC	(NA)
Massachusetts.....	AA	BB	Virginia.....	EE	(NA)
Middle Atlantic Division.....	BB	2.9	West Virginia.....	CC	(NA)
Pennsylvania.....	BB	(NA)	North Carolina.....	CC	(NA)
North Central Region.....	30.9	16.3	Georgia.....	EE	(NA)
East North Central Division.....	FF	EE	East South Central Division.....	GG	(NA)
Ohio.....	BB	(NA)	Kentucky.....	EE	(NA)
Indiana.....	BB	BB	Tennessee.....	GG	(NA)
Illinois.....	2.0	1.2	West South Central Division.....	CC	(NA)
Michigan.....	CC	AA	Arkansas.....	CC	(NA)
Wisconsin.....	13.4	7.7			
West North Central Division.....	BB	BB	MEN'S CASUAL SHOES (31432) ¹		
Minnesota.....	AA	(NA)	United States.....	97.1	(NA)
Iowa.....	AA	(NA)	Northeast Region.....	38.9	(NA)
South Region.....	13.1	7.3	New England Division.....	30.9	(NA)
South Atlantic Division.....	CC	CC	Maine.....	20.4	(NA)
Delaware.....	CC	BB	Massachusetts.....	EE	(NA)
West Virginia.....	BB	(NA)	Middle Atlantic Division.....	8.0	(NA)
North Carolina.....	AA	(NA)	New York.....	BB	(NA)
East South Central Division.....	BB	BB	New Jersey.....	BB	(NA)
Kentucky.....	AA	(NA)	Pennsylvania.....	2.7	(NA)
Tennessee.....	BB	AA	North Central Region.....	23.3	(NA)
			East North Central Division.....	FF	(NA)
CONTRACT RECEIPTS, TANNING, FINISHING LEATHER (31119)			Michigan.....	EE	(NA)
United States.....	87.0	113.2	Wisconsin.....	2.9	(NA)
Northeast Region.....	69.2	88.2	West North Central Division.....	AA	(NA)
New England Division.....	44.4	54.4	South Region.....	32.8	(NA)
Maine.....	EE	17.7	South Atlantic Division.....	CC	(NA)
New Hampshire.....	CC	9.4	North Carolina.....	BB	(NA)
Massachusetts.....	24.8	26.6	East South Central Division.....	EE	(NA)
Middle Atlantic Division.....	24.0	33.8	Tennessee.....	EE	(NA)
New York.....	17.3	13.3	Mississippi.....	BB	(NA)
New Jersey.....	3.2	7.6	West South Central Division.....	7.9	(NA)
Pennsylvania.....	3.6	12.8	Arkansas.....	CC	(NA)
North Central Region.....	14.1	16.3	West Region.....	2.1	(NA)
East North Central Division.....	EE	16.3	Pacific Division.....	AA	(NA)
Illinois.....	BB	3.4	California.....	AA	(NA)
Michigan.....	BB	AA			
Wisconsin.....	5.2	7.8	MEN'S WORKSHOES (31433) ¹		
South Region.....	2.8	8.6	United States.....	309.5	315.0
South Atlantic Division.....	AA	4.9	Northeast Region.....	90.3	84.7
West Virginia.....	AA	AA	New England Division.....	GG	56.7
			Maine.....	25.0	26.0
MEN'S FOOTWEAR, EXCEPT ATHLETIC (31431) ¹			New Hampshire.....	EE	9.4
United States.....	616.9	(NA)	Massachusetts.....	24.7	21.2
Northeast Region.....	226.0	(NA)	Middle Atlantic Division.....	FF	28.0
New England Division.....	149.4	(NA)	New York.....	EE	EE
Maine.....	GG	(NA)	Pennsylvania.....	10.3	EE
New Hampshire.....	FF	(NA)	North Central Region.....	105.1	87.0
Massachusetts.....	57.1	(NA)	East North Central Division.....	FF	FF
Middle Atlantic Division.....	76.5	(NA)	Illinois.....	CC	CC
New York.....	FF	(NA)	Michigan.....	BB	BB
Pennsylvania.....	GG	(NA)	Wisconsin.....	32.0	30.0
			West North Central Division.....	GG	FF
			Minnesota.....	FF	EE
			Missouri.....	FF	FF

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
MEN'S WORK SHOES (31433)--Continued			WOMEN'S SHOES, FLATS (31441)¹--Continued		
South Region.....	105.4	138.1	West Region.....	10.8	(NA)
South Atlantic Division.....	GG	58.0	Mountain Division.....	AA	(NA)
North Carolina.....	EE	22.9	New Mexico.....	AA	(NA)
Georgia.....	31.8	FF	Pacific Division.....	CC	(NA)
East South Central Division.....	41.2	59.2	California.....	CC	(NA)
Kentucky.....	BB	BB			
Tennessee.....	EE	30.5	WOMEN'S SHOES, LOW HEEL (31442)¹		
Alabama.....	FF	FF	United States.....	563.0	(NA)
West South Central Division.....	EE	20.9			
Arkansas.....	EE	EE	Northeast Region.....	194.4	(NA)
West Region.....	8.6	5.2	New England Division.....	99.5	(NA)
Pacific Division.....	8.6	5.2	Maine.....	FF	(NA)
Oregon.....	AA	(NA)	New Hampshire.....	35.1	(NA)
California.....	CC	BB	Massachusetts.....	41.3	(NA)
MEN'S DRESS AND CASUAL BOOTS, EXCEPT WORK (31434)¹			Middle Atlantic Division.....	94.9	(NA)
United States.....	154.1	(NA)	New York.....	FF	(NA)
Northeast Region.....	39.9	(NA)	New Jersey.....	AA	(NA)
New England Division.....	31.3	(NA)	Pennsylvania.....	63.2	(NA)
Maine.....	EE	(NA)			
New Hampshire.....	4.2	(NA)	North Central Region.....	220.6	(NA)
Massachusetts.....	12.6	(NA)	East North Central Division.....	106.0	(NA)
Middle Atlantic Division.....	8.6	(NA)	Ohio.....	52.7	(NA)
New York.....	BB	(NA)	Indiana.....	EE	(NA)
Pennsylvania.....	CC	(NA)	Illinois.....	FF	(NA)
North Central Region.....	26.7	(NA)	Michigan.....	BB	(NA)
East North Central Division.....	18.5	(NA)	Wisconsin.....	4.3	(NA)
Michigan.....	BB	(NA)	West North Central Division.....	114.6	(NA)
Wisconsin.....	EE	(NA)	Minnesota.....	BB	(NA)
West North Central Division.....	8.2	(NA)	Missouri.....	GG	(NA)
Missouri.....	CC	(NA)			
Kansas.....	AA	(NA)	South Region.....	139.1	(NA)
South Region.....	87.6	(NA)	South Atlantic Division.....	24.7	(NA)
South Atlantic Division.....	BB	(NA)	Virginia.....	EE	(NA)
West Virginia.....	BB	(NA)	West Virginia.....	BB	(NA)
East South Central Division.....	63.0	(NA)	North Carolina.....	BB	(NA)
Tennessee.....	GG	(NA)	Florida.....	CC	(NA)
West South Central Division.....	FF	(NA)	East South Central Division.....	81.4	(NA)
Arkansas.....	BB	(NA)	Kentucky.....	32.0	(NA)
Texas.....	EE	(NA)	Tennessee.....	FF	(NA)
			Alabama.....	BB	(NA)
WOMEN'S SHOES, FLATS (31441)¹			Mississippi.....	CC	(NA)
United States.....	195.0	(NA)	West South Central Division.....	32.9	(NA)
Northeast Region.....	108.3	(NA)	Arkansas.....	FF	(NA)
New England Division.....	60.4	(NA)	Texas.....	BB	(NA)
Maine.....	31.9	(NA)	West Region.....	8.8	(NA)
New Hampshire.....	CC	(NA)	Pacific Division.....	8.8	(NA)
Massachusetts.....	18.6	(NA)	California.....	CC	(NA)
Middle Atlantic Division.....	48.0	(NA)			
New York.....	CC	(NA)	WOMEN'S SHOES, MEDIUM HEEL (31443)¹		
Pennsylvania.....	40.7	(NA)	United States.....	350.8	(NA)
North Central Region.....	21.1	(NA)			
East North Central Division.....	12.1	(NA)	Northeast Region.....	152.3	(NA)
Ohio.....	BB	(NA)	New England Division.....	119.5	(NA)
Indiana.....	AA	(NA)	Maine.....	27.0	(NA)
Illinois.....	AA	(NA)	New Hampshire.....	44.3	(NA)
Michigan.....	BB	(NA)	Massachusetts.....	48.2	(NA)
West North Central Division.....	9.0	(NA)	Middle Atlantic Division.....	32.9	(NA)
Missouri.....	CC	(NA)	New York.....	EE	(NA)
South Region.....	54.9	(NA)	Pennsylvania.....	18.2	(NA)
South Atlantic Division.....	7.1	(NA)			
Virginia.....	BB	(NA)	North Central Region.....	121.0	(NA)
West Virginia.....	BB	(NA)	East North Central Division.....	GG	(NA)
East South Central Division.....	34.2	(NA)	Ohio.....	FF	(NA)
Kentucky.....	BB	(NA)	Indiana.....	FF	(NA)
Tennessee.....	EE	(NA)	Illinois.....	EE	(NA)
Mississippi.....	EE	(NA)	West North Central Division.....	FF	(NA)
West South Central Division.....	13.6	(NA)	Missouri.....	FF	(NA)
Arkansas.....	10.3	(NA)			
Texas.....	3.3	(NA)	South Region.....	67.7	(NA)
			South Atlantic Division.....	10.6	(NA)
See footnotes at end of table.			Maryland.....	BB	(NA)
			Virginia.....	BB	(NA)
			Florida.....	BB	(NA)
			East South Central Division.....	47.1	(NA)
			Kentucky.....	FF	(NA)
			Tennessee.....	EE	(NA)
			Mississippi.....	CC	(NA)
			West South Central Division.....	10.0	(NA)
			Arkansas.....	10.0	(NA)

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
WOMEN'S SHOES, MEDIUM HEEL (31443)--Continued			YOUTHS' AND BOYS' SHOES (31491)--Continued		
West Region.....	9.8	(NA)	North Central Region.....	EE	24.6
Pacific Division.....	9.8	(NA)	East North Central Division.....	CC	13.5
California.....	CC	(NA)	Illinois.....	BB	BB
Hawaii.....	BB	(NA)	Michigan.....	AA	BB
			Wisconsin.....	1.1	2.4
			West North Central Division.....	12.4	11.1
			Missouri.....	EE	11.1
WOMEN'S SHOES, HIGH HEEL (31444) ¹					
United States.....	45.7	(NA)	South Region.....	46.6	37.3
Northeast Region.....	28.6	(NA)	South Atlantic Division.....	25.0	14.1
New England Division.....	15.1	(NA)	Maryland.....	BB	(NA)
Maine.....	BB	(NA)	West Virginia.....	CC	AA
New Hampshire.....	CC	(NA)	North Carolina.....	CC	CC
Massachusetts.....	CC	(NA)	Georgia.....	3.2	BB
Middle Atlantic Division.....	13.5	(NA)	Florida.....	BB	(NA)
New York.....	11.5	(NA)			
Pennsylvania.....	1.9	(NA)	East South Central Division.....	16.0	21.8
			Kentucky.....	AA	(NA)
			Tennessee.....	14.1	21.6
			West South Central Division.....	5.6	1.4
			Arkansas.....	5.6	1.4
North Central Region.....	CC	(NA)			
East North Central Division.....	BB	(NA)	MISSES' AND CHILDREN'S SHOES (31492) ¹		
Michigan.....	AA	(NA)	United States.....	206.4	186.7
West North Central Division.....	BB	(NA)	Northeast Region.....	71.7	73.6
Missouri.....	BB	(NA)	New England Division.....	42.7	35.9
			Maine.....	CC	4.6
South Region.....	6.1	(NA)	New Hampshire.....	9.6	4.3
East South Central Division.....	BB	(NA)	Massachusetts.....	26.1	23.4
Tennessee.....	BB	(NA)	Connecticut.....	AA	3.5
			Middle Atlantic Division.....	28.9	37.7
			New York.....	4.1	4.3
			Pennsylvania.....	24.9	33.4
West Region.....	CC	(NA)			
Pacific Division.....	CC	(NA)	North Central Region.....	GG	46.4
California.....	BB	(NA)	East North Central Division.....	EE	15.3
Hawaii.....	BB	(NA)	Illinois.....	CC	AA
			Michigan.....	AA	BB
			Wisconsin.....	7.5	9.7
			West North Central Division.....	38.7	31.2
			Missouri.....	FF	31.2
WOMEN'S BOOTS (31445) ¹					
United States.....	102.6	(NA)	South Region.....	78.8	66.6
Northeast Region.....	60.4	(NA)	South Atlantic Division.....	16.6	16.3
New England Division.....	45.2	(NA)	Maryland.....	CC	CC
Maine.....	EE	(NA)	Virginia.....	BB	BB
New Hampshire.....	19.3	(NA)	North Carolina.....	AA	(NA)
Massachusetts.....	5.6	(NA)	Florida.....	BB	AA
Connecticut.....	BB	(NA)			
			East South Central Division.....	42.1	25.4
Middle Atlantic Division.....	15.2	(NA)	Kentucky.....	BB	(NA)
New York.....	4.7	(NA)	Tennessee.....	FF	21.8
Pennsylvania.....	10.6	(NA)	West South Central Division.....	20.1	24.9
			Arkansas.....	EE	21.2
North Central Region.....	14.8	(NA)	Texas.....	AA	3.7
East North Central Division.....	13.4	(NA)			
Ohio.....	CC	(NA)	West Region.....	BB	(NA)
Indiana.....	BB	(NA)	Pacific Division.....	AA	(NA)
Michigan.....	BB	(NA)	California.....	AA	(NA)
West North Central Division.....	1.3	(NA)			
			INFANTS' AND BABIES' SHOES (31493) ¹		
South Region.....	24.5	(NA)	United States.....	78.8	69.6
South Atlantic Division.....	2.1	(NA)	Northeast Region.....	35.8	32.0
East South Central Division.....	7.8	(NA)	New England Division.....	16.1	13.5
Kentucky.....	CC	(NA)	Massachusetts.....	EE	EE
West South Central Division.....	14.6	(NA)	Middle Atlantic Division.....	19.7	18.5
Arkansas.....	EE	(NA)	New York.....	CC	4.4
Texas.....	BB	(NA)	Pennsylvania.....	EE	14.1
West Region.....	2.9	(NA)	North Central Region.....	27.1	26.7
Pacific Division.....	2.9	(NA)	East North Central Division.....	7.1	12.2
California.....	2.9	(NA)	Illinois.....	BB	8.8
			Wisconsin.....	BB	2.9
			West North Central Division.....	20.0	14.5
			Missouri.....	EE	14.0
YOUTHS' AND BOYS' SHOES (31491) ¹					
United States.....	103.8	100.1			
Northeast Region.....	38.5	38.1			
New England Division.....	19.4	20.3			
Maine.....	EE	8.3			
Massachusetts.....	CC	10.0			
Middle Atlantic Division.....	19.1	17.9			
New York.....	BB	4.8			
Pennsylvania.....	EE	13.1			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
INFANTS' AND BABIES' SHOES (31493)--Continued			ALL OTHER FOOTWEAR, EXCEPT RUBBER, SLIPPERS (31494)--Continued		
South Region.....	15.4	10.9	Middle Atlantic Division.....	19.4	11.2
South Atlantic Division.....	BB	2.9	New York.....	10.5	BB
Maryland.....	BB	AA	Pennsylvania.....	8.9	6.7
East South Central Division.....	CC	3.4	North Central Region.....	9.6	7.9
Tennessee.....	CC	3.4	East North Central Division.....	3.6	6.3
West South Central Division.....	4.5	4.6	Wisconsin.....	AA	BB
Arkansas.....	BB	4.6	West North Central Division.....	6.0	1.6
ALL OTHER FOOTWEAR, EXCEPT RUBBER, SLIPPERS (31494) ¹			Minnesota.....	4.2	(NA)
United States.....	86.7	41.9	Missouri.....	AA	(NA)
Northeast Region.....	59.9	30.5	South Region.....	16.4	2.6
New England Division.....	40.5	19.3	South Atlantic Division.....	CC	BB
Maine.....	15.0	BB	North Carolina.....	BB	(NA)
Massachusetts.....	FF	13.2	Florida.....	AA	AA
			West South Central Division.....	EE	(NA)
			Texas.....	EE	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available.

¹Data for 1972 are shown on the new SIC basis. For 1967, these data were included in old SIC product classes as follows:

New SIC basis	Old SIC basis	New SIC basis	Old SIC basis	New SIC basis	Old SIC basis
31431	31411	31441	31414	31491	31413
31432		31442		31492	31415
31434		31443		31493	31416
31430		31444		31494	31417
		31445			
31433	31412	31440			

TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3111	Leather tanning and finishing: Value.....mil. dol..	1,026.4	802.6	765.9	830.8	855.5	846.2	734.9	718.1
31111	Finished cattle hide and kip side leathers, value....do....	684.1	524.7	481.0	503.9	496.9	495.7	397.4	411.3
31112	Finished calf and whole kip leathers: Quantity.....mil. sq. ft..	34.8	(NA)	(NA)	(NA)	(NA)	44.2	69.9	83.6
	Value.....mil. dol..	35.1	34.5	40.3	33.0	35.6	35.6	51.9	62.6
31113	Finished sheep and lamb leathers: Quantity.....mil. sq. ft..	111.6	(NA)	(NA)	(NA)	(NA)	168.3	234.2	228.3
	Value.....mil. dol..	54.7	57.9	55.1	70.6	86.1	60.9	69.7	56.7
31114	Other finished leathers, n.e.c.: Quantity.....mil. sq. ft..	106.9	(NA)	(NA)	(NA)	(NA)	142.9	130.3	150.5
	Value.....mil. dol..	47.9	48.1	51.2	73.2	68.5	75.3	69.4	69.2
31115	Rough, russet, and crust leather, (not finished in the same establishment), value.....do....	51.8	29.9	31.6	31.2	34.1	30.5	23.4	26.7
31110	Tanned and finished leather, n.s.k., value.....do....	65.8	29.1	(29.8)	27.2	28.2	35.1	23.9	7.6
31119	Contract receipts, for tanning and finishing leather, value.....do....	87.0	78.4	76.9	91.7	106.1	113.1	99.1	83.9
31310	Boot and shoe cut stock and findings, value.....do....	196.1	234.2	238.7	264.4	263.7	254.3	216.0	239.0
31420	House slippers: Quantity.....mil. pr..	99.4	(NA)	(NA)	(NA)	(NA)	98.3	79.8	70.9
	Value.....mil. dol..	159.4	157.6	164.4	169.3	165.8	162.3	127.6	115.7

See footnotes at end of table.

TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972—Continued

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3143	Men's footwear, except athletic: ²								
	Quantity (million pairs):								
31431	Men's dress shoes.....	64.1	(NA)	(NA)	(NA)	(NA)	87.0	83.8	77.6
31432	Men's casual shoes.....	15.9							
31434	Men's dress and casual boots, except work.....	13.4							
31430	Men's footwear, except athletic, n.s.k.....	.4							
	Value (million dollars): ³								
31431	Men's dress shoes.....	616.9	719.1	728.0	748.4	725.0	669.4	531.0	472.5
31432	Men's casual shoes.....	97.1							
31434	Men's dress and casual boots, except work.....	154.1							
31430	Men's footwear, except athletic, n.s.k.....	3.7							
31433	Men's work shoes: ³								
	Quantity.....mil. pr..	31.8	(NA)	(NA)	(NA)	(NA)	36.1	26.7	24.9
	Value.....mil. dol..	309.5	326.8	304.0	314.0	297.8	315.0	174.9	146.9
3144	Women's footwear, except athletic: ²								
	Quantity (million pairs):								
31441	Women's shoes, flats.....	41.4	(NA)	(NA)	(NA)	(NA)	260.5	275.7	279.5
31442	Women's shoes, low heel.....	94.6							
31443	Women's shoes, medium heel.....	51.3							
31444	Women's shoes, high heel.....	6.6							
31445	Women's boots.....	11.8							
	Value (million dollars): ³								
31441	Women's shoes, flats.....	195.0	1,184.4	1,268.6	1,346.4	1,408.0	1,249.0	1,065.5	996.4
31442	Women's shoes, low heel.....	563.0							
31443	Women's shoes, medium heel.....	350.8							
31444	Women's shoes, high heel.....	45.7							
31445	Women's boots.....	102.6							
31440	Women's footwear, except athletic, n.s.k.:								
	Quantity.....mil. pr..	7.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
	Value.....mil. dol..	48.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)
3149	Footwear, except rubber, n.e.c.: ²								
	Value.....do....	479.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
31491	Youths' and boys' shoes: ³								
	Quantity.....mil. pr..	22.2	(NA)	(NA)	(NA)	(NA)	25.2	22.2	23.5
	Value.....mil. dol..	103.8	92.1	99.8	100.7	98.2	100.1	82.2	81.8
31492	Misses' and children's shoes: ³								
	Quantity.....mil. pr..	53.1	(NA)	(NA)	(NA)	(NA)	57.5	65.5	69.8
	Value.....mil. dol..	206.4	213.4	225.7	227.1	223.6	186.7	189.9	192.3
31493	Infants' and babies' shoes: ³								
	Quantity.....mil. pr..	25.9	(NA)	(NA)	(NA)	(NA)	29.3	31.7	36.5
	Value.....mil. dol..	78.8	70.9	72.3	79.0	74.4	69.6	73.1	76.2
31494	All other footwear, except rubber and slippers: ³								
	Quantity.....mil. pr..	20.3	(NA)	(NA)	(NA)	(NA)	9.2	12.5	12.5
	Value.....mil. dol..	86.7	116.4	98.2	52.5	53.4	40.4	54.4	47.2

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Data for 1972 are shown on the new SIC basis. For 1971 and prior years, these data were included in industry 3141, Shoes, Except Rubber, on the old SIC basis.

³Data for 1972 are shown on the new SIC basis. For 1971 and prior years these data were included in old SIC product classes as follows:

New SIC basis	Old SIC basis	New SIC basis	Old SIC basis	New SIC basis	Old SIC basis
31431	31411	31441	31414	31491	31413
31432		31442		31492	31415
31434		31443		31493	31416
31430		31444		31494	31417
		31445			
31433	31412	31440			

TABLE 7. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	Delivered cost				
			(million dollars)				
			1972		1967 ¹		
	INDUSTRY 3111.--LEATHER TANNING AND FINISHING						
	Materials, parts, and supplies, total.....			624.6		460.3	
201191	Hides, skins, and pelts.....			439.9		298.0	
280021	Tanning materials, dressings, dyes, and finishing agents.....			104.8		92.3	
	Finished leather:						
311102	Upper leather.....	Million sq.ft.		8.9		9.3	
311105	Innersole leather.....	..do.....	}	16.4	}		
311106	All other soling leather.....	..do.....				12.1	
311108	All other finished leather.....	..do.....		10.1			
970099	All other materials, containers, and supplies.....			15.7		21.9	
972000	Materials, parts, and supplies, n.s.k.....			28.8		26.7	
			1972		1967		
			Quantity	Delivered cost	Quantity	Delivered cost	
				(million dollars)		(million dollars)	
	INDUSTRY 3131.--BOOT AND SHOE CUT STOCK AND FINDINGS						
	Materials, parts, and supplies, total.....		}	113.3	(X)	144.6	
201191	Hides, skins, and pelts.....			4.0	(X)	6.3	
	Finished leather:						
311102	Upper leather.....	Million sq.ft.		2.9	8.2	4.6	
	Soling leather, total.....	..do.....		30.9	58.4	29.9	
311105	Innersole leather.....	Million lb....		1.3	11.7	4.8	
311106	All other soling leather.....	..do.....		27.3	46.7	25.1	
311108	All other finished leather.....	..do.....		2.3	7.2	4.1	
280021	Tanning materials, dressings, dyes, and other finishing agents...			2.0	(X)	2.7	
970099	All other materials, containers, and supplies consumed.....			55.1	(X)	63.0	
976000	Materials, containers, and supplies, n.s.k.....		18.4	(X)	34.0		
	INDUSTRY 3142.--HOUSE SLIPPERS						
	Materials, parts, supplies, total.....		(X)	58.6	(X)	72.2	
	Finished leather:						
	Upper leather.....	Million sq.ft.	8.9	6.4	22.2	9.5	
311103	Lining leather.....	..do.....	}	8.9	22.5	9.5	
311104	All other upper leather.....	..do.....					
	Soling leather.....	Million lb....		(NA)	.7	(NA)	1.4
311105	Innersole leather.....	..do.....	}	(NA)	.7	(NA)	1.4
311106	All other soling leather.....	..do.....					
311107	All other finished leather.....			(X)	.1	(X)	1.1
	Cut stock and findings.....		(X)	5.9	(X)	5.3	
307905	Composition and nuclear.....	Million lb....	(NA)	.4	(NA)	1.8	
306965	Rubber and elastomer resin soling slabs and top lift sheets....	Million sq.ft.	10.0	3.8	(NA)	(NA)	
300115	Plastic, natural and synthetic rubber.....		(X)	1.1	(X)	2.9	
313108	Leather and other.....		(X)	.6	(X)	.6	
229503	Coated, impregnated, or laminated plastics on cloth backing, including artificial leather.....	Mil. lin. yd..	4.1	8.3	3.8	7.2	
307915	Unsupported plastic film, sheets, and sheeting.....	Million sq.yd.	(NA)	}	(NA)	.6	
220129	Broadwoven fabrics (over 12 inches wide).....	Mil. lin. yd..	(NA)		7.4	10.8	
970011	Containers and other packaging supplies.....		(X)		2.5	(X)	3.1
970099	All other materials, parts, supplies, including rubber and elastomer resin soling slabs and top lift sheets.....		(X)	10.9	(X)	22.0	
976000	Materials, parts, supplies, n.s.k.....		(X)	18.1	(X)	11.2	
		Unit of measure	1972				
			Quantity		Delivered cost		
					(million dollars)		
	INDUSTRY 3143.--MEN'S FOOTWEAR, EXCEPT ATHLETIC						
	Materials, parts, supplies, total.....			(X)		573.2	
	Finished leather:						
	Upper leather, total.....	Million sq. ft.....		438.6		275.3	
311103	Lining leather.....	..do.....		121.3		46.5	
311104	All other upper leather.....	..do.....		317.3		228.8	
	Soling leather, total.....	Million lb.....		49.8		38.1	
311105	Innersole leather.....	..do.....		19.8		13.2	
311106	All other soling leather.....	..do.....		30.0		24.9	
311107	All other finished leather.....			(X)		1.5	

See footnotes at end of table.

TABLE 7. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3143.--MEN'S FOOTWEAR, EXCEPT ATHLETIC--Continued			
	Materials, parts, supplies--Continued			
	Cut stock and findings.....		(X)	90.7
307905	Composition and nuclear.....	Million lb.....	(NA)	9.5
306965	Rubber and elastomer resins soling slabs and top lift sheets....	Million sq. ft.....	(NA)	10.0
300115	Plastic, natural, and synthetic rubber.....		(X)	38.8
313108	Leather and other.....		(X)	31.7
229503	Coated impregnated or laminated plastics on cloth backing, including artificial leather.....	Million lin. yd.....	6.8	11.4
307915	Unsupported plastic film and sheeting.....		(X)	(D)
220129	Broadwoven fabrics (over 12 inches wide).....	Million lin. yd.....	(NA)	(D)
970011	Containers and other packaging supplies.....		(X)	17.1
970099	All other materials, parts, supplies.....		(X)	103.0
976000	Materials, parts, supplies, n.s.k.....		(X)	35.5
	INDUSTRY 3144.--WOMEN'S FOOTWEAR, EXCEPT ATHLETIC			
	Materials, parts, and supplies, total.....		(X)	537.6
	Finished leather:			
	Upper leather.....	Million square feet...	240.0	156.2
311103	Lining leather.....	...do.....	45.7	14.5
311104	All other upper leather.....	...do.....	194.3	141.7
	Soling leather.....	Million lb.....	22.3	17.0
311105	Innersole leather.....	...do.....	7.1	5.4
311106	All other soling leather.....	...do.....	15.2	11.6
311107	All other finished leather.....		(X)	2.9
	Cut stock and findings.....		9.6	5.3
307905	Composition and nuclear.....	Million lb.....	64.1	22.9
306965	Rubber and elastomer resins, soling slabs, and top lift sheets..	Million square feet...		
300115	plastic, natural and synthetic rubber.....		(X)	24.2
313108	Leather and other.....		(X)	20.7
229503	Coated impregnated or laminated plastics on cloth backing, including artificial leather.....	Million linear yards..	14.5	36.5
307915	Unsupported plastic film and sheeting.....		(X)	5.9
220129	Broadwoven fabrics (over 12 inches wide).....		(X)	(³)
970011	Containers and other packaging supplies.....		(X)	18.7
970099	All other materials, parts, and supplies.....		(X)	³ 154.3
976000	Materials, parts, and supplies, n.s.k.....		(X)	73.0
	INDUSTRY 3149.--FOOTWEAR, EXCEPT RUBBER, N.E.C.			
	Materials, parts, and supplies, total.....		(X)	185.4
	Finished leather:			
	Upper leather.....	Million square feet...	87.8	57.0
311103	Lining leather.....	...do.....	17.4	8.5
311104	All other upper leather.....	...do.....	70.4	48.5
	Soling leather.....	Million pounds.....	7.3	6.0
311105	Innersole leather.....	...do.....	7.3	6.0
311106	All other soling leather.....	...do.....		
311107	All other finished leather.....		(NA)	2.8
	Cut stock and findings:			
307905	Composition and nuclear.....	Million pounds.....	(NA)	3.4
306965	Rubber and elastomer resins soling slabs and top lift sheets....	Million square feet...	(NA)	6.2
300115	Plastic, natural and synthetic rubber.....		(X)	8.1
313108	Leather and other.....		(X)	5.4
229503	Coated impregnated or laminated plastics on cloth backing, including artificial leather.....	Million linear yards..	7.1	14.4
307915	Unsupported plastic film and sheeting.....	Million square yards..	(NA)	(³)
220129	Broadwoven fabrics (over 12 inches wide).....	Million linear yards..	(NA)	(³)
970011	Containers and other packaging supplies.....		(X)	8.6
970099	All other materials, parts, and supplies.....		(X)	³ 46.9
976000	Materials, parts, and supplies, n.s.k.....		(X)	26.7

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Quantity data for 1967 appear in Volume II, 1967 Census of Manufactures, in table 4 of the chapter devoted to the industry.²Quantity data were not collected for 1972.³Data for these materials have been included in "All other materials, parts, and supplies," code 970099, to avoid disclosing the operations of individual companies.

Leather Gloves; Luggage; and Miscellaneous Leather Goods

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EXPLANATORY TEXT

LEATHER GLOVES; LUGGAGE; AND MISCELLANEOUS LEATHER GOODS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

3151—Leather Gloves and Mittens

3161—Luggage

3171—Women's Handbags and Purses

3172—Personal Leather Goods, Except Women's Handbags and Purses*

3199—Leather Goods, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3151.—LEATHER GLOVES AND MITTENS

This industry comprises establishments primarily engaged in the manufacture of dress, semidress, and work gloves exclusively of leather or leather with lining of other material. Establishments primarily engaged in manufacturing sporting and athletic gloves are classified in industry 3949; and dress, semidress, and work gloves and mittens of cloth or cloth and leather combined, in industry 2381. For a detailed list of products of industry 3151, refer to table 6A, product codes 31510 10 to 31510 89.

*Note that the "short title" for this industry is used throughout the report.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Leather Gloves and Mittens Industry in 1972 totaled \$98.2 million. This included shipments of leather gloves and mittens (primary products) valued at \$67.8 million, shipments of other products (secondary products) valued at \$5.4 million, and miscellaneous receipts (mainly resales) of \$24.9 million.

Shipments of leather gloves and mittens (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of fabric dress and work gloves at \$4.8 million.

Shipments of leather dress and work gloves (primary products) from establishments classified in industry 3151 in 1972 represented 84 percent (coverage ratio) of these products valued at \$82.7 million shipped by all industries. In 1967, the coverage ratio was 84 percent. Other industries shipping leather gloves and mittens consisted mainly of industry 2381, Fabric Dress and Work Gloves, (\$10.6 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3151, these establishments accounted for 6 percent of value of shipments.

INDUSTRY 3161.—LUGGAGE

This industry comprises establishments primarily engaged in the manufacture of luggage of leather or other material. For a detailed list of products of industry 3161, refer to table 6A, product codes 31610 16 to 31610 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Luggage Industry in 1972 totaled \$364.5 million. This included shipments of luggage (primary products) valued at \$314.0 million, shipments of other products (secondary products) valued at \$25.5 million, and miscellaneous receipts (mainly resales) of \$25.0 million.

Shipments of luggage (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 96 percent. Secondary products shipped by this industry in 1972 consisted mainly of housefurnishings, n.e.c., (\$5 to \$10 million) and sporting and athletic goods, n.e.c., (over \$2 million).

Shipments of luggage (primary products) from establishments classified in industry 3161 in 1972 represent 97 percent (coverage ratio) of these products valued at \$321.9 million shipped by all industries. In 1967, the coverage ratio was 94 percent. Other industries shipping luggage consisted mainly of industry 3172, Personal Leather Goods, at \$3.7 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3161, these establishments accounted for 11 percent of value of shipments.

INDUSTRY 3171.—WOMEN'S HANDBAGS AND PURSES

This industry comprises establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metals, (industry 3911). For a detailed list of products of industry 3171, refer to table 6A, product codes 31710 11 to 31710 71.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Women's Handbags and Purses Industry in 1972 totaled \$365.0 million. This included shipments of women's handbags and purses (primary products) valued at \$334.2 million, shipments of other products (secondary products) valued at \$15.0 million, and miscellaneous receipts (mainly resales) of \$15.7 million.

Shipments of women's handbags and purses (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 98 percent. Secondary products shipped by this industry in 1972 consisted mainly of personal leather goods (\$6.1 million) and apparel belts (\$5 to \$10 million).

Shipments of women's handbags and purses (primary products) from establishments classified in industry 3171 in 1972 represented 97 percent (coverage ratio) of these products valued at \$344.4 million shipped by all industries. In 1967, the coverage ratio was 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3171, these establishments accounted for 12 percent of value of shipments.

INDUSTRY 3172.—PERSONAL LEATHER GOODS, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in the manufacture of small articles, such as billfolds, key cases, and coin purses of leather or other materials, except precious metal, (industry 3911). For a detailed list of products of industry 3172, refer to table 6A, product codes 31720 11 to 31720 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Personal Leather Goods, N.E.C., Industry in 1972 totaled \$242.2 million. This included shipments of personal leather goods (primary products) valued at \$211.0 million, shipments of other products (secondary products) valued at \$12.7 million, and miscellaneous receipts (mainly resales) of \$18.4 million.

Shipments of personal leather goods (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 94 percent. Secondary products shipped by this industry in 1972 consisted mainly of luggage (\$3.7 million) and women's handbags and purses (\$2.5 million).

Shipments of personal leather goods (primary products) from establishments classified in industry 3172 in 1972 represented 91 percent (coverage ratio) of these products valued at \$231.8 million shipped by all industries. In 1967, the coverage ratio was 92 percent. Other industries shipping personal leather goods consisted mainly of industry 3171, Women's Handbags and Purses, (\$6.1 million) and industry 3199, Leather Goods, N.E.C., (over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3172, these establishments accounted for 12 percent of value of shipments.

INDUSTRY 3199.—LEATHER GOODS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing leather goods, not elsewhere classified, such as saddlery, harness, and whips; embossed leather goods; leather desk sets; and industrial leather belting. For a detailed list of products of industry 3199, refer to table 6A, product codes 31990 11 to 31990 98.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual by the transfer of the industrial product, industrial leather belting, from SIC 3121 to SIC 3199. However, the SIC numbers and titles are unchanged. The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 50 establishments with 800 total employees and \$13 million value added would have been classified in different industries under the old SIC.

Value of shipments and other receipts of the Leather Goods, N.E.C., Industry in 1972 totaled \$161.3 million. This included shipments of leather goods, n.e.c., (primary products)

valued at \$132.1 million, shipments of other products (secondary products) valued at \$10.1 million, and miscellaneous receipts (mainly resales) of \$19.2 million.

Shipments of leather goods, n.e.c., (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent. Secondary products shipped by this industry in 1972 consisted mainly of personal leather goods at over \$2 million.

Shipments of leather goods, n.e.c., (primary products) from establishments classified in industry 3199 in 1972 represented 90 percent (coverage ratio) of these products valued at \$146.1 million shipped by all industries. In 1967, the coverage ratio was 86 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3199, these establishments accounted for 26 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3151.--LEATHER GLOVES AND MITTENS															
1972 Census.....	106	60	4.9	22.1	4.3	7.6	17.1	42.9	54.9	98.2	0.6	(NA)	20.3	92	85
1971 ASM	(NA)	(NA)	4.9	21.4	4.2	7.3	16.6	41.8	48.7	92.1	.5	(NA)	17.9	(NA)	(NA)
1970 ASM	(NA)	(NA)	5.5	22.2	4.8	8.2	17.3	48.3	54.1	100.5	*.6	(NA)	19.5	(NA)	(NA)
1969 ASM	(NA)	(NA)	6.0	23.3	5.3	9.4	18.3	36.7	55.8	91.8	*.9	7.4	15.5	(NA)	(NA)
1968 ASM	(NA)	(NA)	6.0	22.5	5.3	9.5	17.8	34.7	47.6	83.5	.6	6.9	13.3	(NA)	(NA)
1967 Census.....	147	71	6.3	22.4	5.6	9.9	17.9	36.3	49.3	86.7	.8	6.8	14.2	90	84
1966 ASM	(NA)	(NA)	7.4	25.1	6.5	11.5	20.4	37.0	54.1	89.6	*.6	(NA)	15.5	(NA)	(NA)
1965 ASM	(NA)	(NA)	7.3	24.2	6.5	11.3	19.1	35.4	48.0	81.9	.3	(NA)	15.1	(NA)	(NA)
1964 ASM	(NA)	(NA)	6.9	23.4	6.2	11.2	18.7	38.0	46.0	83.8	.2	6.1	13.7	(NA)	(NA)
1963 Census.....	166	87	7.7	24.4	6.9	12.2	19.5	32.2	46.7	80.6	.3	5.9	14.9	81	89
1962 ASM	(NA)	(NA)	6.2	18.5	5.4	9.9	14.6	25.5	31.2	56.4	(Z)	5.6	12.8	(NA)	(NA)
1961 ASM	(NA)	(NA)	6.8	20.1	6.1	10.7	16.2	30.1	35.1	64.5	(Z)	(NA)	13.7	(NA)	(NA)
1960 ASM	(NA)	(NA)	6.9	19.0	6.1	10.4	15.4	28.1	33.1	61.2	(S)	(NA)	12.1	(NA)	(NA)
1959 ASM	(NA)	(NA)	6.6	18.3	5.9	10.2	14.9	27.8	33.7	61.0	(S)	(NA)	10.8	(NA)	(NA)
1958 Census.....	179	76	6.2	16.0	5.5	9.2	12.7	26.0	28.3	54.2	.3	(NA)	9.5	85	86
INDUSTRY 3161.--LUGGAGE															
1972 Census.....	277	130	17.1	106.8	14.3	26.4	75.6	194.1	171.9	364.5	8.9	(NA)	66.0	92	97
1971 ASM	(NA)	(NA)	14.8	87.6	12.2	22.3	59.2	156.0	125.0	283.3	5.5	(S)	46.3	(NA)	(NA)
1970 ASM	(NA)	(NA)	16.6	89.7	13.9	24.8	60.7	165.9	130.2	301.5	*3.7	(S)	48.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	21.9	108.2	19.1	34.7	78.4	221.9	166.8	379.0	5.6	68.2	55.5	(NA)	(NA)
1968 ASM	(NA)	(NA)	21.3	99.9	18.4	33.7	71.7	199.2	158.4	357.6	8.5	60.6	45.6	(NA)	(NA)
1967 Census.....	333	156	21.4	96.6	18.4	34.2	69.4	186.0	155.2	334.2	8.8	62.9	45.3	96	94
1966 ASM	(NA)	(NA)	19.6	82.9	17.0	31.9	60.1	143.7	138.7	275.8	4.9	(NA)	46.0	(NA)	(NA)
1965 ASM	(NA)	(NA)	18.4	74.1	15.8	29.1	53.8	132.1	129.1	261.6	3.6	(NA)	42.1	(NA)	(NA)
1964 ASM	(NA)	(NA)	16.4	66.3	14.1	27.9	48.6	121.5	110.8	232.9	2.1	36.4	32.2	(NA)	(NA)
1963 Census.....	379	145	16.4	62.9	14.1	26.3	46.7	112.8	100.4	210.3	1.9	34.8	36.3	95	94
1962 ASM	(NA)	(NA)	16.1	61.6	13.6	25.8	45.4	110.1	97.1	207.9	*1.7	32.5	38.6	(NA)	(NA)
1961 ASM	(NA)	(NA)	15.9	57.0	13.6	25.6	43.2	97.9	89.1	186.2	*1.7	(NA)	37.9	(NA)	(NA)
1960 ASM	(NA)	(NA)	18.0	61.0	15.5	28.6	45.1	107.5	94.8	201.0	(S)	(NA)	35.8	(NA)	(NA)
1959 ASM	(NA)	(NA)	16.8	57.9	14.6	27.4	43.4	101.6	96.2	193.5	(S)	(NA)	32.0	(NA)	(NA)
1958 Census.....	428	159	15.9	54.7	13.7	25.1	40.3	96.6	88.2	184.7	1.5	(NA)	28.2	95	95
INDUSTRY 3171.--WOMEN'S HANDBAGS AND PURSES															
1972 Census.....	444	214	22.2	121.7	19.8	36.6	93.2	201.5	166.5	365.0	3.7	(NA)	37.1	95	97
1971 ASM	(NA)	(NA)	19.6	93.8	17.8	32.0	74.5	159.3	113.4	272.6	3.1	31.6	28.1	(NA)	(NA)
1970 ASM	(NA)	(NA)	21.4	96.0	19.3	35.1	76.9	164.5	117.0	280.8	2.8	37.5	27.2	(NA)	(NA)
1969 ASM	(NA)	(NA)	25.9	118.8	23.6	45.7	96.0	200.8	156.5	358.2	3.0	35.0	31.0	(NA)	(NA)
1968 ASM	(NA)	(NA)	25.9	119.0	23.7	45.8	96.2	201.8	156.2	358.6	3.5	*33.9	30.5	(NA)	(NA)
1967 Census.....	496	247	24.1	104.5	21.7	41.7	82.8	173.6	154.2	327.2	2.1	*33.2	26.1	98	98
1966 ASM	(NA)	(NA)	22.7	90.5	20.1	40.1	70.6	149.5	142.9	291.9	*2.9	(NA)	21.3	(NA)	(NA)
1965 ASM	(NA)	(NA)	22.9	86.1	20.1	38.7	68.7	137.3	134.4	271.0	*2.0	(NA)	21.2	(NA)	(NA)
1964 ASM	(NA)	(NA)	24.8	92.2	22.2	42.2	72.9	159.6	137.0	295.3	*1.6	20.6	21.3	(NA)	(NA)
1963 Census.....	545	262	24.5	88.5	22.0	41.8	70.1	142.6	137.1	280.3	1.9	19.1	18.8	98	98
1962 ASM	(NA)	(NA)	24.0	81.2	21.7	41.3	66.6	134.1	128.6	263.4	1.3	16.2	17.3	(NA)	(NA)
1961 ASM	(NA)	(NA)	23.6	76.6	21.2	39.5	61.6	127.3	130.5	259.4	1.1	(NA)	16.6	(NA)	(NA)
1960 ASM	(NA)	(NA)	23.2	74.0	20.7	39.0	58.6	127.7	130.0	258.4	1.1	(NA)	18.5	(NA)	(NA)
1959 ASM	(NA)	(NA)	23.9	73.2	21.2	40.0	57.4	122.5	134.3	257.8	(S)	(NA)	19.2	(NA)	(NA)
1958 Census.....	624	262	22.0	68.7	19.5	37.3	54.3	111.5	119.4	231.1	1.6	(NA)	20.0	96	98
INDUSTRY 3172.--PERSONAL LEATHER GOODS															
1972 Census.....	244	98	11.5	73.4	9.3	16.9	45.6	143.7	103.4	242.2	2.8	(NA)	38.3	94	91
1971 ASM	(NA)	(NA)	12.8	76.5	10.3	18.7	46.5	137.3	96.1	236.5	1.3	35.2	35.6	(NA)	(NA)
1970 ASM	(NA)	(NA)	15.0	81.7	12.3	22.3	50.3	143.0	105.7	247.1	2.1	34.2	40.7	(NA)	(NA)
1969 ASM	(NA)	(NA)	12.3	61.6	10.2	18.5	38.9	112.1	86.0	198.7	1.3	30.8	30.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	12.1	60.0	9.9	18.3	38.8	112.5	81.9	191.6	1.3	29.6	29.3	(NA)	(NA)
1967 Census.....	296	105	12.7	58.2	10.7	19.7	38.4	105.1	80.9	186.2	2.0	29.5	26.0	94	92
1966 ASM	(NA)	(NA)	15.6	62.6	13.1	24.4	42.7	105.0	90.2	195.8	*2.2	(NA)	28.5	(NA)	(NA)
1965 ASM	(NA)	(NA)	14.0	54.8	11.7	22.0	36.9	98.6	80.2	175.5	1.6	(NA)	27.4	(NA)	(NA)
1964 ASM	(NA)	(NA)	11.9	49.1	10.0	19.3	33.1	88.3	79.7	166.0	*1.5	18.0	26.1	(NA)	(NA)
1963 Census.....	340	117	12.4	47.4	10.3	19.6	32.1	82.4	76.6	159.0	1.3	16.8	20.9	96	92
1962 ASM	(NA)	(NA)	13.7	51.2	11.5	21.4	34.9	86.3	69.8	154.9	*1.8	15.5	19.8	(NA)	(NA)
1961 ASM	(NA)	(NA)	13.4	48.0	11.4	21.2	32.5	81.0	64.6	144.6	*1.3	(NA)	18.3	(NA)	(NA)
1960 ASM	(NA)	(NA)	15.3	52.6	12.9	23.7	35.2	81.1	72.6	154.3	*5.6	(NA)	20.4	(NA)	(NA)
1959 ASM	(NA)	(NA)	15.1	52.0	12.7	23.7	35.3	82.3	72.7	153.4	*2.8	(NA)	21.0	(NA)	(NA)
1958 Census.....	400	123	13.7	46.5	11.5	21.4	31.9	75.8	62.5	138.1	1.4	(NA)	19.0	91	87

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3199.--LEATHER GOODS, N.E.C.															
1972 Census, new SIC..	448	99	7.2	42.5	6.1	11.2	29.4	84.3	81.0	161.3	2.2	(NA)	30.2	92	90
1972 Census, old SIC..	398	88	6.4	35.1	5.3	9.6	25.3	71.3	69.2	134.6	1.8	(NA)	20.6	(NA)	(NA)
1967 Census, old SIC..	365	83	6.1	26.4	5.3	10.0	19.0	45.5	50.8	96.5	1.4	12.9	12.4	94	86

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3151	Industry 3161	Industry 3171	Industry 3172	Industry 3199
1972.....	95	266	431	238	433
1967.....	136	328	488	293	(NA)
1963.....	160	377	539	325	(NA)

(NA) Not available. (S) Withheld because the data did not meet publication standards. (Z) Less than half of the unit of measurement shown. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3151.--LEATHER GLOVES AND MITTENS											
1972 Census.....	4,510	(NA)	88	1,767	2.25	.55	.78	(NA)	8,755	52	5.64
1971 ASM.....	4,367	1,610	86	1,738	2.27	.53	.76	.09	8,531	51	5.73
1970 ASM.....	4,036	1,600	87	1,708	2.11	.54	.76	.09	8,782	46	5.89
1969 ASM.....	3,883	1,230	88	1,774	1.95	.61	.86	.08	6,117	64	3.90
1968 ASM.....	3,750	1,150	88	1,792	1.87	.57	.84	.08	5,783	65	3.65
1967 Census.....	3,534	1,080	89	1,766	1.80	.57	.83	.08	5,720	62	3.66
1966 ASM.....	3,372	(NA)	87	1,776	1.76	.60	.88	(NA)	4,978	68	3.21
1965 ASM.....	3,321	(NA)	89	1,739	1.70	.59	.88	(NA)	4,851	68	3.14
1964 ASM.....	3,382	880	90	1,804	1.67	.55	.83	.07	5,485	62	3.39
1963 Census.....	3,166	770	89	1,775	1.59	.58	.88	.07	4,171	76	2.63
1962 ASM.....	3,010	900	88	1,824	1.48	.55	.88	.10	4,139	73	2.58
1961 ASM.....	2,959	(NA)	89	1,772	1.51	.54	.86	(NA)	4,421	67	2.80
1960 ASM.....	2,752	(NA)	88	1,707	1.48	.54	.85	(NA)	4,066	68	2.70
1959 ASM.....	2,778	(NA)	89	1,747	1.46	.55	.85	(NA)	4,210	66	2.71
1958 Census.....	2,575	(NA)	89	1,674	1.38	.52	.82	(NA)	4,185	62	2.82
INDUSTRY 3161.--LUGGAGE											
1972 Census.....	6,246	(NA)	84	1,839	2.87	.47	.76	(NA)	11,351	55	7.38
1971 ASM.....	5,919	4,080	82	1,828	2.66	.44	.75	.21	10,540	56	7.00
1970 ASM.....	5,404	3,640	84	1,784	2.45	.43	.73	.20	9,994	54	6.99
1969 ASM.....	4,941	3,110	87	1,817	2.26	.44	.73	.18	10,132	49	6.39
1968 ASM.....	4,690	2,850	86	1,832	2.13	.44	.72	.17	9,352	50	5.91
1967 Census.....	4,514	2,940	86	1,862	2.03	.46	.75	.19	8,688	52	5.44
1966 ASM.....	4,219	(NA)	87	1,875	1.89	.50	.80	(NA)	7,317	58	4.51
1965 ASM.....	4,025	(NA)	86	1,845	1.85	.49	.78	(NA)	7,178	56	4.53
1964 ASM.....	4,040	2,220	86	1,976	1.74	.48	.76	.16	7,402	55	4.35
1963 Census.....	3,830	2,120	86	1,864	1.77	.48	.78	.17	6,874	56	4.28
1962 ASM.....	3,832	2,020	85	1,898	1.76	.47	.76	.16	6,849	56	4.27
1961 ASM.....	3,581	(NA)	86	1,878	1.69	.48	.78	(NA)	6,149	58	3.82
1960 ASM.....	3,381	(NA)	86	1,843	1.58	.47	.77	(NA)	5,964	57	3.77
1959 ASM.....	3,445	(NA)	87	1,874	1.58	.50	.80	(NA)	6,039	57	3.71
1958 Census.....	3,451	(NA)	87	1,832	1.60	.48	.77	(NA)	6,090	57	3.84

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3171.--WOMEN'S HANDBAGS AND PURSES											
1972 Census.....	5,482	(NA)	89	1,848	2.55	.46	.79	(NA)	9,077	60	5.51
1971 ASM.....	4,786	1,610	91	1,798	2.33	.42	.76	.12	8,128	59	4.98
1970 ASM.....	4,486	1,750	90	1,819	2.19	.42	.76	.13	7,687	58	4.69
1969 ASM.....	4,587	1,350	91	1,936	2.10	.44	.77	.10	7,753	59	4.39
1968 ASM.....	4,959	1,310	92	1,932	2.10	.44	.77	.09	7,792	59	4.41
1967 Census.....	4,332	1,380	90	1,919	1.99	.47	.79	.10	7,197	60	4.17
1966 ASM.....	3,995	(NA)	89	1,995	1.76	.49	.80	(NA)	6,596	61	3.72
1965 ASM.....	3,757	(NA)	88	1,923	1.78	.50	.80	(NA)	5,992	63	3.55
1964 ASM.....	3,719	830	90	1,895	1.73	.46	.78	.07	6,439	58	3.79
1963 Census.....	3,603	780	90	1,898	1.68	.49	.80	.07	5,807	62	3.41
1962 ASM.....	3,382	680	90	1,904	1.61	.49	.80	.06	5,583	61	3.25
1961 ASM.....	3,248	(NA)	90	1,869	1.56	.50	.80	(NA)	5,395	60	3.22
1960 ASM.....	3,187	(NA)	89	1,885	1.50	.50	.79	(NA)	5,498	58	3.27
1959 ASM.....	3,063	(NA)	89	1,892	1.43	.52	.81	(NA)	5,121	60	3.06
1958 Census.....	3,125	(NA)	89	1,915	1.46	.52	.81	(NA)	5,077	62	2.99
INDUSTRY 3172.--PERSONAL LEATHER GOODS											
1972 Census.....	6,383	(NA)	81	1,817	2.70	.43	.73	(NA)	12,496	.51	8.50
1971 ASM.....	5,906	2,750	81	1,816	2.49	.41	.73	.15	10,727	56	7.34
1970 ASM.....	5,447	2,280	82	1,813	2.26	.43	.76	.14	9,533	57	6.41
1969 ASM.....	5,008	2,500	83	1,814	2.10	.43	.74	.16	9,114	55	6.06
1968 ASM.....	4,959	2,450	82	1,848	2.12	.43	.74	.15	9,298	53	6.15
1967 Census.....	4,577	2,320	84	1,848	1.95	.43	.75	.16	8,261	55	5.32
1966 ASM.....	4,020	(NA)	84	1,860	1.75	.46	.78	(NA)	6,743	60	4.31
1965 ASM.....	3,902	(NA)	83	1,890	1.67	.46	.77	(NA)	7,026	56	4.48
1964 ASM.....	4,115	1,510	83	1,940	1.71	.48	.78	.11	7,405	56	4.57
1963 Census.....	3,809	1,350	83	1,897	1.64	.48	.78	.11	6,627	57	4.21
1962 ASM.....	3,732	1,130	84	1,852	1.63	.45	.78	.10	6,285	59	4.04
1961 ASM.....	3,580	(NA)	85	1,862	1.54	.45	.78	(NA)	6,043	59	3.83
1960 ASM.....	3,437	(NA)	85	1,831	1.48	.47	.81	(NA)	5,299	65	3.42
1959 ASM.....	3,435	(NA)	84	1,869	1.49	.47	.81	(NA)	5,433	63	3.46
1958 Census.....	3,404	(NA)	84	1,856	1.49	.45	.79	(NA)	5,550	61	3.54
INDUSTRY 3199.--LEATHER GOODS, N.E.C.											
1972 Census, new SIC...	5,903	(NA)	85	1,836	2.63	.50	.77	(NA)	11,708	.50	6.63
1972 Census, old SIC...	5,661	(NA)	85	1,811	2.64	.51	.77	(NA)	7,290	.50	7.25

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
Industry 3199.--Leather Goods, N.E.C.....	448	99	7.2	84.3	161.3	(X)	(X)	(X)	(X)	(X)
Old industry 3121.....	50	11	.8	13.0	26.7	53	14	1.0	15.1	30.3
Old industry 3199.....	398	88	6.4	71.3	134.6	398	88	6.4	71.3	134.6

(X) Not applicable.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3151-- LEATHER GLOVES AND MITTENS													
UNITED STATES.	106	60	4.9	22.1	4.3	7.6	17.1	42.9	54.9	98.2	0.6	6.3	36.3
NORTHEAST REGION	42	19	1.6	7.3	1.3	2.2	5.3	15.9	26.2	41.8	.1	3.0	18.0
MIDDLE ATLANTIC DIVISION	40	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	38	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	17.4
NORTH CENTRAL REGION	38	26	2.0	9.3	1.8	3.0	7.0	13.3	17.2	31.1	.4	2.4	12.4
EAST NORTH CENTRAL DIVISION. . .	30	19	1.6	7.1	1.4	2.4	5.5	9.3	12.5	22.6	.3	1.9	9.9
INDIANA	4	3	.2	1.1	.2	.4	.8	1.5	1.6	3.1	(Z)	AA	(D)
ILLINOIS	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	2.7
WISCONSIN.	16	10	.7	3.2	.6	1.1	2.4	4.2	6.4	10.6	(Z)	.8	3.7
WEST NORTH CENTRAL DIVISION. . .	8	7	.5	2.1	.4	.7	1.5	4.0	4.7	8.5	(Z)	.5	2.5
IOWA	4	3	.2	1.1	.2	.3	.7	2.6	2.9	5.3	(D)	AA	(D)
MISSOURI	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION	12	12	1.2	4.8	1.1	2.1	4.4	12.6	10.2	22.7	.1	.6	4.0
EAST SOUTH CENTRAL DIVISION. . .	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . .	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ARKANSAS	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
LOUISIANA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. E4	14	3	.2	.7	.1	.2	.5	1.2	1.3	2.5	(Z)	.3	2.0
3161-- LUGGAGE													
UNITED STATES. E1	277	130	17.1	106.8	14.3	26.4	75.6	194.1	171.9	364.5	8.9	21.4	186.0
NORTHEAST REGION E1	145	73	7.3	41.5	6.1	10.9	28.7	81.6	68.6	149.4	(D)	9.4	81.7
NEW ENGLAND DIVISION	19	8	1.6	9.2	1.3	2.3	5.7	25.6	20.6	45.5	.3	1.7	18.7
NEW HAMPSHIRE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS. E1	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
RHODE ISLAND	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION . . . E1	126	65	5.7	32.3	4.8	8.6	23.0	56.0	48.0	103.9	(D)	7.6	63.0
NEW YORK E2	88	42	3.4	19.0	2.9	5.1	13.9	35.5	27.0	62.2	(D)	5.2	43.7
NEW JERSEY	20	11	1.4	8.5	1.1	2.1	5.9	11.5	11.3	23.2	.1	1.7	13.1
PENNSYLVANIA	18	12	1.0	4.8	.8	1.4	3.3	9.0	9.7	18.4	.3	.8	6.2
NORTH CENTRAL REGION E1	73	28	3.3	18.2	3.0	5.7	14.5	28.6	41.6	69.1	(D)	3.4	21.0
EAST NORTH CENTRAL DIVISION. . E2	62	20	1.7	9.5	1.4	2.6	6.8	16.5	13.0	28.9	(D)	2.3	13.8
OHIO E2	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.6
INDIANA	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	2.1
ILLINOIS E2	31	8	.8	4.9	.7	1.2	3.4	8.5	6.5	14.6	.2	1.4	7.6
WISCONSIN. E2	12	3	.2	1.3	.2	.4	.9	1.8	2.5	4.3	(Z)	AA	(D)
WEST NORTH CENTRAL DIVISION. . E1	11	8	1.7	8.7	1.6	3.0	7.6	12.1	28.6	40.2	(D)	1.1	7.2
MINNESOTA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI E3	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION E1	28	17	3.0	15.7	2.5	4.6	11.1	26.8	29.9	57.9	(D)	FF	(D)
SOUTH ATLANTIC DIVISION. . . . E1	13	9	1.8	9.8	1.5	2.7	7.0	17.8	16.9	34.5	(D)	FF	(D)
DELAWARE	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
VIRGINIA E0	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
FLORIDA.	5	3	.2	1.1	.2	.4	.9	1.7	2.0	3.8	.1	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	7	4	.9	4.3	.7	1.4	2.9	6.6	11.2	19.1	.1	.9	8.2
TENNESSEE.	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . E5	8	4	.3	1.6	.3	.5	1.1	2.4	1.8	4.2	(D)	.4	3.1
OKLAHOMA E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	31	12	3.5	31.3	2.7	5.3	21.3	57.1	31.8	88.1	1.9	FF	(D)
MOUNTAIN DIVISION.	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
COLORADO	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PACIFIC DIVISION	25	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.6
WASHINGTON	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA E1	22	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3171-- WOMEN'S HANDBAGS AND PURSES													
UNITED STATES. E1	444	214	22.2	121.7	19.8	36.6	93.2	201.5	166.5	365.0	3.7	24.1	173.6
NORTHEAST REGION E1	309	171	17.0	95.4	15.0	27.9	72.8	157.6	130.0	285.2	2.1	20.5	148.8
NEW ENGLAND DIVISION	21	12	1.8	11.6	1.5	2.9	8.4	18.9	12.7	31.6	.2	1.6	11.4
MASSACHUSETTS.	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	8.3
CONNECTICUT.	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION . . . E1	288	159	15.1	83.8	13.5	24.9	64.4	138.7	117.3	253.6	1.9	18.9	137.4
NEW YORK E1	241	126	10.8	59.0	9.6	17.5	45.8	98.8	83.3	180.7	1.4	14.0	101.1
NEW JERSEY	31	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	26.5
PENNSYLVANIA E1	16	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	9.8
NORTH CENTRAL REGION	20	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	7.6
WEST NORTH CENTRAL DIVISION. . .	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MINNESOTA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3171-- WOMEN'S HANDBAGS AND PURSES--CON.													
SOUTH REGION E1	86	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	10.2
SOUTH ATLANTIC DIVISION. E1	37	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA E3	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA E1	22	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.0
EAST SOUTH CENTRAL DIVISION.	21	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION.	26	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.0
TEXAS	21	7	.6	2.9	.6	1.0	2.2	6.1	6.9	12.8	.4	AA	(D)
WEST REGION E2	29	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	7.0
PACIFIC DIVISION E2	28	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA E2	26	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3172-- PERSONAL LEATHER GOODS, NEC													
UNITED STATES E1	244	98	11.5	73.4	9.3	16.9	45.6	143.7	103.4	242.2	2.8	12.7	105.1
NORTHEAST REGION E1	159	73	7.2	45.6	5.9	10.5	28.5	88.0	69.4	154.9	1.6	8.6	66.2
NEW ENGLAND DIVISION E1	32	14	2.1	14.2	1.6	2.8	7.9	26.7	21.6	47.4	.5	2.2	19.3
MASSACHUSETTS	16	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	16.1
RHODE ISLAND E5	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	2.5
MIDDLE ATLANTIC DIVISION E1	127	59	5.1	31.4	4.3	7.7	20.6	61.3	47.8	107.5	1.1	6.4	46.8
NEW YORK E1	105	47	3.8	23.4	3.2	5.8	15.5	42.4	35.3	76.8	.8	4.1	32.4
NEW JERSEY E1	18	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	11.8
PENNSYLVANIA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	2.6
NORTH CENTRAL REGION	36	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	31.9
EAST NORTH CENTRAL DIVISION.	27	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ILLINOIS E1	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	5.8
WISCONSIN	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION.	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION E1	17	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	3.9
SOUTH ATLANTIC DIVISION.	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. E1	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
OKLAHOMA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION E4	32	3	.3	1.4	.2	.4	.9	2.5	2.5	4.8	.1	.3	3.1
PACIFIC DIVISION E3	28	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA E3	27	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3199-- LEATHER GOODS, NEC ²													
UNITED STATES E2	448	99	7.2	42.5	6.1	11.2	29.4	84.3	81.0	161.3	2.2	(NA)	(NA)
NORTHEAST REGION E3	165	35	2.4	14.8	2.0	3.6	9.9	28.8	23.7	52.2	1.0	(NA)	(NA)
NEW ENGLAND DIVISION E3	39	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS E4	30	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION E3	126	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK E3	93	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY E4	12	2	.2	1.5	.2	.3	1.0	2.7	3.0	6.1	(D)	(NA)	(NA)
PENNSYLVANIA E2	21	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION E1	73	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. E1	46	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	16	5	.5	3.0	.4	.7	2.3	4.6	4.3	9.0	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. E1	27	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI E1	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION E2	119	31	2.5	13.9	2.1	4.0	9.7	30.4	34.3	61.6	.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION. E2	44	9	.6	4.0	.5	.9	2.3	7.7	10.2	17.2	.2	(NA)	(NA)
MARYLAND E6	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA E1	16	3	.2	1.3	.1	.2	.6	2.5	4.0	6.3	.1	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. E1	20	10	1.1	5.4	.9	1.7	4.0	12.8	15.1	25.1	.3	(NA)	(NA)
TENNESSEE	17	10	1.0	5.3	.9	1.7	3.9	12.5	14.8	24.5	.3	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. E3	55	12	.8	4.6	.7	1.4	3.4	9.9	9.1	19.2	.3	(NA)	(NA)
TEXAS E2	41	9	.6	3.6	.6	1.1	2.7	7.7	7.3	15.2	(D)	(NA)	(NA)
WEST REGION E3	91	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION. E2	29	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO E1	13	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E3	62	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA E3	53	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes on next page.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 2A)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

²New industry 3199 for 1972. Prior years data are only slightly noncomparable with the new SIC 3199 (less than 15 percent).

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967	
	Establishments		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages					
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(million)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3199.--LEATHER GOODS, N.E.C.....												
United States.....	398	88	6.4	35.1	5.3	9.6	25.3	71.3	69.2	134.6	6.1	45.5
Northeast Region.....	151	33	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	17.8
New England Division.....	32	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.0
Massachusetts.....	27	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division.....	119	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	14.9
New York.....	91	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	12.7
New Jersey.....	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pennsylvania.....	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.7
North Central Region.....	64	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	8.4
East North Central Division...	39	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	6.0
Illinois.....	14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.7
West North Central Division...	25	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.4
Missouri.....	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Region.....	98	25	2.1	10.9	1.8	3.4	8.2	25.1	26.8	48.7	2.1	13.1
South Atlantic Division.....	27	5	.4	1.8	.3	.6	1.3	3.9	3.5	6.8	1.0	5.3
Maryland.....	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina.....	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division...	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	5.2
Tennessee.....	14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	4.9
West South Central Division...	54	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.5
Texas.....	40	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.1
West Region.....	85	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	6.2
Mountain Division.....	28	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.6
Colorado.....	13	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.9
Pacific Division.....	57	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.6
California.....	48	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.2

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Leather gloves and mittens (SIC 3151)	Luggage (SIC 3161)	Women's handbags and purses (SIC 3171)	Personal leather goods (SIC 3172)	Leather goods, n.e.c. (SIC 3199) ¹
PRIMARY PRODUCT SPECIALIZATION RATIO ² PERCENT .	92	92	95	94	92
COVERAGE RATIO ³ DO .	85	97	97	91	90
ESTABLISHMENTS, TOTAL NUMBER .	106	277	444	244	448
WITH 1 TO 19 EMPLOYEES DO .	46	147	230	146	349
WITH 20 TO 99 EMPLOYEES DO .	45	85	148	71	90
WITH 100 EMPLOYEES OR MORE DO .	15	45	66	27	9
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000 .	4.9	17.1	22.2	11.5	7.2
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS .	22.1	106.8	121.7	73.4	42.5
PRODUCTION WORKERS:					
AVERAGE FOR YEAR 1,000 .	4.3	14.3	19.8	9.3	6.1
MARCH DO .	4.1	13.8	19.8	8.6	5.9
MAY DO .	4.3	14.0	18.4	8.9	6.0
AUGUST DO .	4.4	14.7	20.3	9.6	6.2
NOVEMBER DO .	4.5	14.8	20.6	9.9	6.2
MAN-HOURS MILLIONS .	7.6	26.4	36.6	16.9	11.2
JANUARY-MARCH DO .	1.8	6.2	9.2	3.8	2.7
APRIL-JUNE DO .	1.9	6.7	8.5	4.2	2.8
JULY-SEPTEMBER DO .	1.9	6.6	9.3	4.2	2.8
OCTOBER-DECEMBER DO .	2.0	6.9	9.5	4.7	2.9
WAGES MILLION DOLLARS .	17.1	75.6	93.2	45.6	29.4
COST OF MATERIALS, ETC., TOTAL DO .	54.9	171.9	166.5	103.4	81.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO .	36.2	145.6	147.7	88.4	66.9
COST OF REALES DO .	16.4	12.9	8.5	12.5	11.9
FUELS CONSUMED DO .	.2	.8	.3	.3	.6
PURCHASED ELECTRIC ENERGY DO .	.3	1.6	1.9	.9	.8
CONTRACT WORK DO .	1.8	11.0	8.1	1.4	.9
VALUE OF SHIPMENTS, INCLUDING REALES DO .	98.2	364.5	365.0	242.2	161.3
VALUE OF REALES DO .	23.8	15.3	11.0	17.7	16.5
VALUE ADDED BY MANUFACTURE DO .	42.9	194.1	201.5	143.7	84.3
MANUFACTURER'S INVENTORIES:					
BEGINNING OF YEAR, TOTAL DO .	19.6	59.3	33.0	30.8	24.7
FINISHED PRODUCTS DO .	9.1	31.7	15.9	15.2	13.5
WORK IN PROCESS DO .	3.9	6.1	5.9	3.6	2.9
MATERIALS, SUPPLIES, FUEL, ETC. DO .	6.6	21.4	11.2	12.0	8.4
END OF YEAR, TOTAL DO .	20.3	66.0	37.1	38.3	30.2
FINISHED PRODUCTS DO .	8.9	32.2	18.1	18.6	15.7
WORK IN PROCESS DO .	4.0	7.2	6.6	5.2	4.7
MATERIALS, SUPPLIES, FUEL, ETC. DO .	7.6	26.7	12.4	14.5	9.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO .	.6	9.2	3.9	2.9	3.6
NEW PLANT AND EQUIPMENT, TOTAL DO .	.6	8.9	3.7	2.8	2.2
NEW STRUCTURES AND ADDITIONS TO PLANT DO .	.1	3.8	1.2	1.1	.5
NEW MACHINERY AND EQUIPMENT DO .	.5	5.2	2.5	1.7	1.7
USED PLANT AND EQUIPMENT DO .	(Z)	.3	.2	.1	1.4

(Z) Less than half of the unit of measurement shown.

¹New industry 3199 for 1972. Prior years' data are only slightly noncomparable with the new SIC 3199 (less than 15 percent difference).²The proportion of product shipments (both primary and secondary) of the industry represented by primary products.³The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3151-- LEATHER GLOVES AND MITTENS											
ESTABLISHMENTS, TOTAL	106	4.9	22.1	4.3	7.6	17.1	42.9	54.9	98.2	0.6	20.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	21	(Z)	.1	(Z)	(Z)	.1	.9	1.4	2.5	(Z)	.3
5 TO 9 EMPLOYEES E6	14	.1	.5	.1	.1	.3	1.1	1.2	2.3	(Z)	.4
10 TO 19 EMPLOYEES E4	11	.2	.6	.1	.2	.5	.9	1.2	2.1	(Z)	.4
20 TO 49 EMPLOYEES	25	.8	4.1	.7	1.2	2.7	7.8	8.7	16.1	.1	4.5
50 TO 99 EMPLOYEES	20	1.5	6.6	1.3	2.3	5.2	10.6	12.7	23.2	.1	5.1
100 TO 249 EMPLOYEES	14	2.3	10.2	2.1	3.8	8.3	21.7	29.9	52.0	.3	9.7
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	34	.2	.7	.2	.2	.5	1.7	2.2	3.9	(Z)	.7
3161-- LUGGAGE											
ESTABLISHMENTS, TOTAL E1	277	17.1	106.8	14.3	26.4	75.6	194.1	171.9	364.5	8.9	66.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	66	.1	.8	.1	.2	.5	2.3	1.9	4.2	(Z)	.1
5 TO 9 EMPLOYEES E6	44	.3	1.7	.3	.4	1.1	3.6	3.3	6.9	.1	.4
10 TO 19 EMPLOYEES E3	37	.5	3.0	.5	.8	2.2	5.9	4.5	10.2	.1	.7
20 TO 49 EMPLOYEES E1	59	2.0	11.4	1.7	3.2	8.1	20.1	16.6	36.2	.5	3.9
50 TO 99 EMPLOYEES	26	1.8	10.6	1.6	3.3	7.9	17.2	14.2	31.6	1.2	4.5
100 TO 249 EMPLOYEES	33	4.8	25.7	4.1	7.3	18.4	48.0	40.5	89.2	5.7	12.9
250 TO 499 EMPLOYEES	8	2.8	14.2	2.5	4.8	11.7	20.0	40.9	61.8	(D)	15.5
500 TO 999 EMPLOYEES	3	4.6	39.2	3.5	6.3	25.7	50.0	124.4	1.3	28.0	(D)
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	93	.4	2.2	.4	.6	1.5	5.7	4.1	9.8	.1	.3

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3171-- WOMEN'S HANDBAGS AND PURSES											
ESTABLISHMENTS, TOTAL, E1	444	22.2	121.7	19.8	36.6	93.2	201.5	166.5	365.0	3.7	37.1
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E6	98	.2	.9	.2	.3	.6	1.7	2.4	4.5	.1	.4
5 TO 9 EMPLOYEES E6	74	.5	2.7	.5	.8	2.1	4.9	4.3	9.2	.1	.9
10 TO 19 EMPLOYEES E3	58	.8	4.6	.7	1.4	3.3	8.2	6.6	14.5	.3	1.3
20 TO 49 EMPLOYEES E2	91	2.9	15.7	2.6	4.6	12.1	27.2	21.5	48.6	.5	4.0
50 TO 99 EMPLOYEES E1	57	4.2	23.5	3.7	6.8	18.0	38.2	28.8	66.3	.5	7.1
100 TO 249 EMPLOYEES	52	8.2	44.4	7.3	13.7	34.2	70.3	61.4	131.0	1.3	14.8
250 TO 499 EMPLOYEES	11	3.6	18.9	3.3	5.6	14.9	32.4	28.3	59.4	.3	6.3
500 TO 999 EMPLOYEES	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	139	.6	3.0	.6	1.0	2.4	5.3	3.9	9.2	.1	.8
3172-- PERSONAL LEATHER GOODS, NEC											
ESTABLISHMENTS, TOTAL, E1	244	11.5	73.4	9.3	16.9	45.6	143.7	103.4	242.2	2.8	38.3
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E9	89	.2	.9	.2	.3	.6	2.7	2.1	4.7	(Z)	.9
5 TO 9 EMPLOYEES E7	24	.2	.9	.1	.2	.5	1.9	1.4	3.2	(Z)	.5
10 TO 19 EMPLOYEES E2	33	.5	2.9	.4	.8	2.1	5.3	3.9	9.1	.1	1.1
20 TO 49 EMPLOYEES E2	46	1.5	7.9	1.3	2.1	5.3	13.9	12.3	26.0	.2	2.8
50 TO 99 EMPLOYEES	25	1.7	10.7	1.5	2.8	6.9	20.9	17.0	37.4	.3	5.6
100 TO 249 EMPLOYEES E1	19	2.9	17.7	2.4	4.6	12.4	34.8	25.7	58.9	.9	9.7
250 TO 499 EMPLOYEES	3	1.0	4.7	.8	1.4	3.2	8.2	7.2	14.8	.3	3.2
500 TO 999 EMPLOYEES	5	3.6	27.7	2.6	4.8	14.7	56.2	34.0	87.9	.9	14.5
ESTABS. COVERED BY ADMIN. RECORD ¹	105	.3	1.7	.3	.5	1.1	4.4	3.4	7.8	.1	1.4
3199-- LEATHER GOODS, NEC											
ESTABLISHMENTS, TOTAL, E2	448	7.2	42.5	6.1	11.2	29.4	84.3	81.0	161.3	2.2	30.2
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E8	202	.3	2.0	.3	.5	1.5	5.2	4.4	9.6	.1	1.4
5 TO 9 EMPLOYEES E7	80	.6	3.2	.5	.9	2.2	7.4	6.0	13.3	.2	2.1
10 TO 19 EMPLOYEES E4	67	.9	5.7	.8	1.4	3.9	10.7	11.0	21.8	.4	2.9
20 TO 49 EMPLOYEES E1	61	1.9	11.7	1.6	2.9	7.6	21.5	19.1	39.8	.8	7.4
50 TO 99 EMPLOYEES	29	2.0	11.4	1.7	3.2	7.8	23.4	21.4	43.2	.5	7.8
100 TO 249 EMPLOYEES	8	1.4	8.5	1.3	2.4	6.5	16.1	19.2	33.6	.3	8.6
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	226	.7	4.1	.7	1.2	3.1	9.7	8.0	17.7	.3	2.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balance of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3151	LEATHER GLOVES AND MITTENS										
	ENTIRE INDUSTRY	106	4.9	22.1	4.3	7.6	17.1	42.9	54.9	98.2	0.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	95	4.2	18.9	3.7	6.6	14.7	38.0	49.8	88.1	.5
3161	LUGGAGE										
	ENTIRE INDUSTRY	277	17.1	106.8	14.3	26.4	75.6	194.1	171.9	364.5	8.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	261	14.8	93.2	12.3	22.5	65.3	177.7	136.1	312.4	3.8
3171	WOMEN'S HANDBAGS AND PURSES										
	ENTIRE INDUSTRY	444	22.2	121.7	19.8	36.6	93.2	201.5	166.5	365.0	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	415	20.2	111.2	18.0	33.4	84.9	183.1	151.0	331.6	3.3
3172	PERSONAL LEATHER GOODS, NEC										
	ENTIRE INDUSTRY	244	11.5	73.4	9.3	16.9	45.6	143.7	103.4	242.2	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	228	9.8	63.6	7.8	14.2	38.9	127.7	91.8	215.5	2.5
3199	LEATHER GOODS, NEC										
	ENTIRE INDUSTRY	448	7.2	42.5	6.1	11.2	29.4	84.3	81.0	161.3	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	432	6.6	38.7	5.7	10.2	27.2	77.3	74.2	147.7	2.2

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3151	Leather gloves and mittens.....1972..	98.2	67.8	5.4	24.9	92	79.9	67.8	12.1	84
	.....1967..	86.7	61.6	6.6	18.5	90	73.3	61.6	11.7	84
3161	Luggage.....1972..	364.5	314.0	25.5	25.0	92	321.9	314.0	7.9	97
	.....1967..	334.2	308.5	13.7	12.0	96	320.1	308.5	11.6	94
3171	Women's handbags and purses.....1972..	365.0	334.2	15.0	15.7	95	344.4	334.2	10.2	97
	.....1967..	327.2	304.9	7.5	14.8	98	312.1	304.9	7.2	98
3172	Personal leather goods, n.e.c.....1972..	242.2	211.0	12.7	18.4	94	231.8	211.0	20.8	91
	.....1967..	186.2	163.9	10.4	11.9	94	178.9	163.9	15.0	92
3199	Leather goods, n.e.c.....1972 ¹ .	161.3	132.1	10.1	19.2	92	146.1	132.1	14.0	90
	.....1967 ² .	96.5	77.7	5.4	13.4	94	89.9	77.7	12.2	86

¹New SIC basis.

²Old SIC basis.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Leather gloves and mittens (SIC 3151)	Luggage (SIC 3161)	Women's handbags and purses (SIC 3171)	Personal leather goods (SIC 3172)	Leather goods, n.e.c. (SIC 3199)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	98.2	364.5	365.0	242.2	161.3	(X)
3151-	Leather gloves and mittens.....	79.9	67.8	-	-	-	-	12.1
3161-	Luggage.....	321.9	-	314.0	(under 2)	3.7	(under 2)	3.1
3171-	Women's handbags and purses.....	344.4	-	(2-5)	334.2	2.5	(under 2)	5.3
3172-	Personal leather goods, n.e.c....	231.8	-	(under 2)	6.1	211.0	(over 2)	10.3
3199-	Leather goods, n.e.c.....	146.1	-	(under 2)	(under 2)	(under 2)	132.1	10.8
	Other product shipments by 4-digit product group:							
2337-	Women's and misses suits and coats.....	(X)	-	(over 2)	-	-	-	(X)
2381-	Fabric dress and work gloves..	(X)	4.8	-	-	-	-	(X)
2387-	Apparel belts.....	(X)	-	-	(5-10)	(under 2)	-	(X)
2392-	Housefurnishing, n.e.c.....	(X)	-	(5-10)	-	-	-	(X)
3079-	Miscellaneous plastics products	(X)	-	2.7	(under 2)	(under 2)	(under 2)	(X)
3949-	Sporting and athletic goods, n.e.c.....	(X)	-	(over 2)	-	-	(under 2)	(X)
	Other secondary products.....	(X)	(under 2)	5.6	(under 2)	5.0	5.0	(X)
	Miscellaneous receipts.....	(X)	24.9	25.0	15.7	18.4	19.2	(X)
99989	Resales.....	(X)	23.8	15.3	11.0	17.7	16.5	(X)
99980	Other, including contract and commission work.....	(X)	(under 2)	9.7	4.7	(under 2)	2.7	(X)
	Listing of the other industries with over \$2 million of the primary products							
3151-	2381 Fabric dress and work gloves.....	(X)	(X)	(X)	(X)	(X)	(X)	10.6
3171-	2387 Apparel belts.....	(X)	(X)	(X)	(X)	(X)	(X)	2.8
3172-	2782 Blankbooks and looseleaf binders.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
3199-	3111 Leather tanning and finishing.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3151- --	LEATHER GLOVES AND MITTENS, TOTAL ¹	1,000 doz. pr.	2,725	79.9	3,027	73.3
	As reported in the census of manufactures:					
	Dress and semidress:					
31510 10	Men's and boys'.....	...do.....	332	15.8	945	32.2
31510 50	Women's and children's.....	...do.....	94	3.5		
31510 70	Work gloves and mittens, including furs.....	...do.....	2,054	53.5	1,739	32.8
31510 00	Leather gloves and mittens, n.s.k., for companies with 10 employees or more. (See note.).....	...do.....	² 110	3.2	198	4.8
31510 02	Leather gloves and mittens, n.s.k., for companies with less than 10 employees. (See note.).....	...do.....	² 135	3.9	145	3.5
	As reported on Census Annual Form MA-23D, Gloves and Mittens ³					
	All leather dress and semidress gloves and mittens.....	...do.....	441	20.7	937	33.2
	Block cut:					
31510 14	Men's and boys'.....	...do.....	212	(X)	469	(X)
31510 54	Women's and children's.....	...do.....	77	(X)	116	(X)
	Other than block cut:					
31510 17	Men's and boys'.....	...do.....	102	(X)	216	(X)
31510 57	Women's and children's.....	...do.....	50	(X)	136	(X)
	All leather work gloves and mittens.....	...do.....	2,024	50.0	1,739	36.0
31510 81	All grain except welders.....	...do.....	1,296	(X)	1,120	(X)
31510 83	All split except welders.....	...do.....	402	(X)	358	(X)
31510 89	Leather except all grain and all split including welders.....	...do.....	326	(X)	261	(X)
3161- --	LUGGAGE, TOTAL.....		(X)	321.9	(X)	320.1
31610 --	Suitcases, Briefcases, Bags, and Musical Instrument Cases:					
	Women's hand luggage, all types (except zippered).....	1,000 units...	7,290	92.5	11,098	100.4
31310 16	Hard side.....	...do.....	⁴ 995	11.6	4,885	35.5
31610 18	Soft side (lock construction).....	...do.....	1,855	28.7	1,931	24.0
31610 24	Molded (fully molded and semimolded).....	...do.....	4,440	52.2	4,282	40.9
	Men's hand luggage, all types (except zippered).....	...do.....	2,569	45.9	^r 3,115	46.2
31610 35	Hard side.....	...do.....	⁴ 307	6.7	711	9.5
31610 37	Soft side (lock construction).....	...do.....	⁴ 872	15.8	915	11.8
31610 32	Molded (fully molded or semimolded).....	...do.....	¹ 1,390	23.4	1,489	25.2
31610 39	Zippered hand luggage, men's and women's.....	...do.....	7,237	55.9	11,810	57.8
31610 53	Occupational luggage cases, sample cases, binocular and camera cases.....	...do.....	⁴ 2,503	17.5	⁵ 1,970	12.0
31610 63	Trunks, hand trunks, and lockers.....	...do.....	⁴ 990	8.5	⁵ 1,040	7.3
31610 73	Briefcases, brief bags, school bags, envelopes, catalog cases, and zippered ring binders.....	...do.....	⁴ 1,604	12.4	⁵ 3,750	21.0
31610 81	Musical instrument cases.....	...do.....	1,232	12.5	⁵ 1,341	10.7
31610 84	Attache cases.....	...do.....	2,065	22.1	⁵ 3,007	21.4
31610 98	Other luggage.....	...do.....	(X)	13.9	(X)	11.6
31610 00	Luggage, n.s.k., for companies with 10 employees or more. (See note.).....	...do.....	(X)	31.2	(X)	25.8
31610 02	Luggage, n.s.k., for companies with less than 10 employees. (See note.).....	...do.....	(X)	9.8	(X)	5.9
3171- --	WOMEN'S HANDBAGS AND PURSES, TOTAL.....		(X)	344.4	(X)	312.1
31710 11	All leather and chiefly leather.....	Million units.	7.7	67.2	15.4	93.6
31710 51	Plastics or chiefly plastic.....	...do.....	64.0	196.9	60.2	147.4
31710 71	Other materials, except precious metal.....	...do.....	4.6	27.9	6.6	23.3
31710 00	Ladies' and children's handbags and purses, n.s.k., for companies with 10 employees or more. (See note.).....	...do.....	(X)	43.2	(X)	40.1
31710 02	Ladies' and children's handbags and purses, n.s.k., for companies with less than 10 employees. (See note.).....	...do.....	(X)	9.2	(X)	7.7

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3172- --	PERSONAL LEATHER GOODS, TOTAL.....		(X)	231.8	(X)	178.9
31720 --	Personal Leather Goods, Except Handbags and Purses:					
	Billfolds, wallets, French purses, and clutches.....	1,000 units...	35,403	93.0	39,551	83.1
31720 11	Leather.....	do.....	24,118	78.9	32,297	76.1
31720 15	Other than leather (plastic, fiber, etc.).....	do.....	11,285	14.1	7,254	7.0
31720 31	Travel kits (fitted and unfitted).....	do.....	2,693	10.5	4,390	12.1
31720 53	Jewelry boxes and cases.....	do.....	22,634	23.3	(NA)	22.3
31720 55	Instrument cases, except musical instrument cases.....	do.....	99	.9	647	2.9
31720 98	Other personal goods (including key, cigarette, eyeglass, pass card, and vanity cases; pocket secretaries; tobacco pouches; cosmetic bags; etc.).....		(X)	69.6	(X)	39.5
31720 00	Small leather goods, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	26.7	(X)	12.0
31720 02	Small leather goods, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	7.8	(X)	7.0
1972 product code	Product		Total receipts including interplant transfers (million dollars)		1972	1967
3199- --	LEATHER GOODS, N.E.C., TOTAL.....				146.1	⁶ 109.0
31990 11	Leather novelties.....				9.2	16.8
31990 31	Saddlery and harness and accouterments.....				32.0	26.4
31990 91	Industrial leather belting and other industrial leather products made wholly or partly of leather, including textile leather, but excluding gaskets and washers ⁶				12.1	13.5
31990 98	Other leather goods (desk sets, holsters, dog collars, leashes, etc.).....				40.1	21.2
31990 00	Leather goods, n.s.k., represents companies with 10 employees or more. (See note.) ⁷				35.0	^r 17.4
31990 02	Leather goods, n.s.k., represents companies with less than 10 employees. (See note.) ⁸				17.7	^r 13.7

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. ^r Revised.

¹Includes only all leather gloves and mittens. Leather and fabric combinations are classified in industry 2381, Fabric Dress and Work Gloves.

²Quantity estimated based on the average unit value reported by other glove producing companies reporting both quantity and value of shipments.

³For SIC industry 3151, the Census Bureau collects annual statistics on selected products. These data appear in Current Industrial Reports, series MA-23D, Gloves and Mittens. The difference in Current Industrial Reports series and the census of manufactures is due to reporting differences for individual plants furnishing data in both surveys.

⁴20 to 50 percent of the quantity data are estimated.

⁵10 to 30 percent of the quantity data are estimated.

⁶Data for this product in 1967 were classified in industry 3121, Industrial Leather Belting and Packing, product codes 31210 13 and 31210 98.

⁷Data for 1967 revised to include \$3.3 million reported under product code 31210 00.

⁸Data for 1967 revised to include \$2.3 million reported under product code 31210 02.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

(Not applicable to this report)

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
31510	Leather gloves and mittens.....	79.9	61.8	68.6	76.1	70.8	73.3	61.9	² 49.3
31610	Luggage.....	321.9	268.4	287.5	342.6	325.4	320.1	204.8	180.5
31710	Women's handbags and purses.....	344.4	276.2	287.8	328.3	335.8	312.1	266.1	² 214.
31720	Personal leather goods, n.e.c.....	231.8	251.8	266.7	205.2	192.5	178.9	154.3	134.7
31990	Leather goods, n.e.c.....	³ 146.1	(NA)	(NA)	(NA)	(NA)	109.0	83.9	79.7

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²For 1958 and prior years, data represent value of production rather than value of shipments.

³New SIC basis.

TABLE 7. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 3151.--LEATHER GLOVES AND MITTENS						
	Materials, containers, and supplies, total.....		(X)	36.2	(X)	33.9
311100	Finished leather.....	Million sq.ft.	^e 56.5	25.6	73.2	22.7
220123	Broadwoven fabrics.....	Mil. lin. yd..	(NA)	3.1	(NA)	1.3
225078	Knitted fabrics.....	Million lb....	(NA)	1.1	(NA)	1.2
970099	All other materials and components, parts, containers, and supplies.....		(X)	2.7	(X)	4.7
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	3.7	(X)	4.0
INDUSTRY 3161.--LUGGAGE						
	Materials, containers, and supplies, total.....		(X)	145.5	(X)	143.9
220129	Broadwoven fabrics (piece goods).....	Mill lin. yd..	^e 18.8	11.6	(NA)	12.3
229503	Coated, impregnated, or laminated plastics on cloth backing, including artificial leather.....	...do.....	22.9	21.2	(BA)	19.8
307915	Unsupported plastic film, sheets, and sheeting.....	Million sq.yd.	(NA)	7.0	(NA)	7.3
311100	Finished leather.....	Million sq.ft.	(NA)	4.6	(X)	5.5
342983	Trunk and luggage hardware, including locks.....		(X)	24.2	(X)	23.1
970097	Other materials, parts, containers, and supplies.....		(X)	55.6	(X)	43.2
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	21.3	(X)	32.8
INDUSTRY 3171.--WOMEN'S HANDBAGS AND PURSES						
	Materials, containers, and supplies, total.....		(X)	147.7	(X)	137.8
220129	Broadwoven fabrics (piece goods).....	Mil. lin. yd..	^e 7.7	7.7	(NA)	(²)
229503	Coated, impregnated, or laminated plastics on cloth backing, including artificial leather.....	...do.....	^e 24.4	40.0	15.6	20.3
307915	Unsupported plastic film, sheets, and sheeting.....	Million sq.yd.	(NA)	20.1	27.0	20.1
311100	Finished leather.....	Million sq.ft.	(NA)	25.1	41.1	24.8
342983	Trunk and luggage hardware including locks.....		(X)	8.3	(X)	4.3
970099	Other materials, parts, containers, and supplies.....		(X)	23.5	(X)	35.3
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	23.0	(X)	33.1
INDUSTRY 3172.--PERSONAL LEATHER GOODS, N.E.C.						
	Materials, containers, and supplies, total.....		(X)	88.4	(X)	71.7
220129	Broadwoven fabrics.....	Mil. lin. yd..	^e 8.0	5.1	(NA)	(NA)
229503	Coated, impregnated, or laminated plastics on cloth backing, including artificial leather.....	...do.....	^e 4.9	6.2	5.2	4.5
307915	Unsupported plastic film, sheets, and sheeting.....	Million sq.yd.	(NA)	4.5	4.3	2.6
311100	Finished leather.....	Million sq.ft.	(NA)	18.5	40.5	19.7
970099	Other materials, parts, containers, and supplies.....		(X)	33.5	(X)	24.3
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	20.6	(X)	20.6
INDUSTRY 3199.--LEATHER GOODS, N.E.C.						
	Materials, containers, and supplies, total.....		(X)	66.9	(X)	43.7
311100	Finished leather.....	Mil. sq. ft...	(X)	23.8	21.3	12.7
970099	Other materials, parts, containers, and supplies.....		(X)	19.8	(X)	14.3
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	23.3	(X)	16.7

(X) Not applicable. (NA) Not available. ^eFrom 20 to 50 percent of this figure was estimated.¹This item represents the total cost of materials for establishments that did not report detailed materials data. For both years this includes estimates for companies that were not mailed report forms.²Included with "Other materials, parts, containers, and supplies."

MAJOR GROUP 32

Stone, Clay, and Glass Products

- 32A Glass products
- 32B Cement and structural clay products
- 32C Pottery and related products
- 32D Concrete, plaster, and cut stone products
- 32E Abrasive, asbestos, and miscellaneous non-metallic mineral products

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining and quarrying activities are classified in Division B, Mining. When separate reports are not available, the mining and quarrying activities other than those of industry 3295 are classified herein with the manufacturing operations.

If separate reports are not available for crushing, grinding, and other preparation activities of industry 3295, these establishments are classified in Division B, Mining.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item ¹	Establishments		All employees ²		Production workers			Value added by manufacture ³	Cost of materials ⁴	Value of industry shipments ⁴	Capital expenditures, new ⁵
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: ⁶											
1972.....	16,545	5,578	660.7	6,035.1	492.6	998.1	4,037.3	12,586.5	9,062.6	21,537.5	1,195.5
1967.....	15,966	5,106	620.6	4,133.8	469.3	948.4	2,784.1	8,333.4	6,146.0	14,449.4	820.9
1963.....	16,185	4,839	602.8	3,462.5	455.8	928.9	2,350.2	7,044.0	5,287.8	12,289.1	607.6
1958.....	15,305	4,637	574.8	2,754.0	446.0	884.1	1,935.0	5,533.4	(NA)	9,726.5	488.6
1954.....	(NA)	(NA)	504.4	2,023.4	412.0	827.0	1,496.0	3,866.2	(NA)	(NA)	300.6
Administrative and auxiliary units:											
1972.....	530	277	39.5	488.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967.....	386	195	30.7	308.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 ⁷	347	284	28.9	250.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 ⁷	358	254	22.3	167.6	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 ⁷	(NA)	(NA)	12.6	85.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972 ⁷	16,015	5,301	623.2	5,546.9	492.6	998.1	4,037.3	12,586.5	9,062.6	21,537.5	1,195.5
1967 ⁷	15,580	4,911	589.9	3,825.5	469.3	948.4	2,784.1	8,333.4	6,146.0	14,449.4	820.9
1963.....	15,838	4,655	573.9	3,212.5	455.8	928.9	2,350.2	7,044.0	5,287.8	12,289.1	607.6
1958.....	15,047	4,484	552.5	2,586.4	446.0	884.1	1,935.0	5,533.4	(NA)	9,726.5	488.6
1954.....	11,262	(NA)	491.8	1,938.1	412.0	827.0	1,496.0	3,866.2	(NA)	(NA)	300.6
Operating manufacturing establishments:											
1971 ⁸	(NA)	(NA)	582.6	4,801.6	462.4	927.8	3,503.4	10,757.8	7,816.6	18,534.7	927.8
1970 ⁸	(NA)	(NA)	591.3	4,530.5	470.2	950.6	3,320.7	9,785.8	7,048.6	16,761.1	2,246.9
1969 ⁸	(NA)	(NA)	608.3	4,440.4	484.0	987.4	3,257.0	9,851.1	7,054.1	16,815.8	907.9
1968 ⁸	(NA)	(NA)	590.1	4,064.6	468.9	950.7	2,971.4	9,211.7	6,609.3	15,783.3	734.0
1966 ⁸	(NA)	(NA)	616.0	3,837.5	488.0	998.9	2,811.7	8,494.6	6,262.5	14,629.4	939.5
1965 ⁸	(NA)	(NA)	604.6	3,602.1	479.9	981.1	2,640.2	7,995.9	5,989.3	13,938.7	773.2
1964 ⁸	(NA)	(NA)	580.8	3,369.0	458.5	949.2	2,446.9	7,492.7	5,541.1	12,950.2	627.2
1962 ⁸	(NA)	(NA)	573.0	3,102.5	463.2	939.4	2,280.2	6,589.1	4,973.2	11,524.1	549.1
1961 ⁸	(NA)	(NA)	567.3	2,937.9	456.9	923.4	2,152.9	6,287.6	4,766.8	11,011.1	554.3
1960 ⁸	(NA)	(NA)	581.4	2,950.0	474.1	959.6	2,187.2	6,369.8	(NA)	(NA)	540.9
1959 ⁸	(NA)	(NA)	595.8	2,939.0	487.5	980.7	2,199.4	6,504.4	(NA)	(NA)	557.0
1957 ⁸	(NA)	(NA)	525.6	2,354.5	437.1	869.3	1,802.7	4,980.5	(NA)	(NA)	655.5
1956 ⁸	(NA)	(NA)	536.0	2,344.5	450.1	911.1	1,814.7	5,035.5	(NA)	(NA)	724.8
1955 ⁸	(NA)	(NA)	524.7	2,177.5	442.3	899.4	1,703.0	4,637.2	(NA)	(NA)	460.9
1953 ⁸	(NA)	(NA)	506.4	1,948.9	430.9	873.0	1,538.5	3,752.9	(NA)	(NA)	281.7
1952 ⁸	10,435	(NA)	510.4	1,841.5	435.7	895.0	1,456.6	3,531.3	(NA)	(NA)	250.8
1951 ⁸	10,700	(NA)	529.1	1,827.8	455.4	945.6	1,458.8	3,560.7	(NA)	(NA)	322.7
1950 ⁸	9,707	(NA)	490.6	1,529.5	418.2	862.8	1,220.1	3,138.3	(NA)	(NA)	222.1
1949 ⁸	(NA)	(NA)	453.2	1,323.2	387.5	778.4	1,044.2	2,450.9	(NA)	(NA)	191.0
1947.....	11,643	(NA)	461.0	1,206.9	404.9	838.3	992.0	2,298.5	(NA)	(NA)	285.1
1939.....	6,778	(NA)	313.5	410.4	267.4	(NA)	307.2	856.3	(NA)	(NA)	(NA)
1937.....	6,114	(NA)	330.7	419.5	297.4	(NA)	345.5	860.1	(NA)	(NA)	(NA)
1935.....	5,846	(NA)	265.1	292.8	234.8	(NA)	227.8	599.5	(NA)	(NA)	(NA)
1933.....	4,757	(NA)	(NA)	(NA)	175.1	(NA)	144.1	404.1	(NA)	(NA)	(NA)
1931.....	6,549	(NA)	(NA)	(NA)	233.7	(NA)	249.6	615.7	(NA)	(NA)	(NA)
1929.....	8,788	(NA)	372.0	548.2	330.7	(NA)	435.9	1,053.9	(NA)	(NA)	(NA)
1927.....	8,574	(NA)	389.7	574.9	348.1	(NA)	463.0	1,022.8	(NA)	(NA)	(NA)
1925.....	8,491	(NA)	391.8	565.2	351.1	(NA)	466.4	1,042.5	(NA)	(NA)	(NA)
1923.....	8,209	(NA)	388.6	543.5	348.6	(NA)	450.7	990.1	(NA)	(NA)	(NA)
1921.....	8,227	(NA)	282.1	377.1	251.2	(NA)	305.4	605.1	(NA)	(NA)	(NA)
1919.....	12,326	(NA)	330.6	396.9	294.6	(NA)	323.7	680.2	(NA)	(NA)	(NA)
1914.....	14,793	(NA)	404.7	248.9	335.3	(NA)	206.1	379.2	(NA)	(NA)	(NA)
1909.....	16,207	(NA)	371.7	223.7	343.9	(NA)	190.0	352.3	(NA)	(NA)	(NA)
1904.....	10,744	(NA)	304.7	170.7	285.7	(NA)	148.8	270.9	(NA)	(NA)	(NA)
1899.....	11,571	(NA)	242.9	115.6	230.0	(NA)	102.4	185.3	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹Figures for establishments primarily engaged in producing ready-mixed concrete are excluded for 1954, 1947, and 1939. In 1958, the value added in ready-mixed concrete establishments represented 12 percent of the total value added for the stone, clay, and glass products, and in 1937, less than 1 percent. As indicated in the introductory text, certain quarries, operated as parts of manufacturing establishments, are included in the stone, clay, and glass products industries but separate figures for such mining activity were also obtained in the last three censuses. The value added at quarries operated in conjunction with these manufacturing establishments (including value added in producing mineral products consumed in the same establishment) was \$321,240 thousand in 1963; \$360,992 thousand in 1958; and \$193,636 thousand in 1954. Further detail on such mining operations are included in the Census of Mineral Industries reports.

²The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

³For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

⁴The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

⁵The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

⁶See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

⁷Similar data are shown for the years 1949 to 1967 in the annual survey of manufactures volumes. Data for these establishments are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and prior to 1949.

⁸These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manu- facture	Cost of materials ²	Value of shipments ³	Capital expendi- tures, new	All employees	Value added by manu- facture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
32	STONE, CLAY, GLASS PRODUCTS. . .	16 015	5 301	623.2	5 546.9	492.6	998.1	4 037.3	12 586.5	9 062.6	21 537.5	1 195.5	689.9	8 333.6
	NORTHEAST REGION	3 306	1 167	158.5	1 459.8	124.1	251.0	1 043.1	3 094.8	2 115.6	5 187.6	264.4	163.6	2 254.4
	NEW ENGLAND DIVISION	822	264	28.8	268.6	21.5	43.2	175.9	543.8	346.1	428.3	37.4	FF	(U)
	MAINE	60	19	1.2	9.6	.9	1.8	6.6	22.0	18.5	39.0	2.0	1.2	13.9
	NEW HAMPSHIRE	70	25	2.5	20.8	1.9	4.0	13.8	41.5	26.5	67.2	4.1	1.8	25.4
	VERMONT	122	35	2.7	21.1	2.1	4.0	15.1	37.4	28.9	65.7	2.6	2.8	27.6
	MASSACHUSETTS	314	91	12.4	123.9	8.5	16.9	73.2	258.4	175.6	431.6	17.2	12.5	181.5
	RHODE ISLAND	52	15	2.3	20.4	1.9	3.8	15.3	43.7	24.7	67.4	2.1	2.5	32.3
	CONNECTICUT	204	79	7.8	77.7	6.2	12.7	51.9	140.8	111.6	257.4	9.4	7.7	106.6
	MIDDLE ATLANTIC DIVISION	2 444	903	129.7	1 191.2	102.5	207.8	867.2	2 551.0	1 799.5	4 259.3	227.1	135.0	1 863.1
	NEW YORK	964	277	36.0	352.4	27.2	54.8	236.6	738.4	546.3	1 278.6	60.7	40.4	623.7
	NEW JERSEY	569	234	37.0	331.3	29.6	59.9	243.1	698.4	465.1	1 154.5	60.5	37.1	484.5
	PENNSYLVANIA	951	392	56.7	507.5	45.7	93.2	385.3	1 114.2	718.1	1 822.2	165.8	57.6	755.1
	NORTH CENTRAL REGION	5 015	1 502	191.0	1 772.1	151.8	305.8	1 304.0	3 995.1	2 829.1	6 774.2	333.3	191.6	2 847.5
	EAST NORTH CENTRAL DIVISION	3 456	1 115	153.7	1 432.1	123.1	248.3	1 067.1	3 218.7	2 225.0	5 401.0	263.4	(NA)	(NA)
	OHIO	1 035	405	61.6	563.6	50.1	100.8	430.6	1 254.4	782.7	2 024.2	90.6	61.1	852.3
	INDIANA	497	162	24.1	207.0	19.5	38.8	157.4	469.7	300.6	765.8	44.6	25.7	360.4
	ILLINOIS	801	259	38.4	360.5	30.7	61.6	268.3	773.5	566.7	1 325.5	69.8	37.9	533.3
	MICHIGAN	703	198	21.5	225.2	16.4	34.0	156.9	553.2	428.1	972.1	42.8	21.3	410.3
	WISCONSIN	420	91	8.1	75.9	6.4	13.2	53.9	167.9	146.9	313.2	15.6	8.7	125.6
	WEST NORTH CENTRAL DIVISION	1 569	387	37.2	339.9	28.7	57.5	241.0	776.4	604.1	1 373.2	69.9	36.8	545.6
	MINNESOTA	356	83	7.1	65.4	5.4	10.9	45.3	151.6	123.5	257.6	10.6	6.9	85.4
	IOA	324	67	6.0	53.0	4.8	9.7	39.2	131.5	103.2	233.7	8.0	4.2	113.7
	MISSOURI	398	111	13.2	122.4	10.0	19.6	64.4	200.3	465.2	18.6	13.9	211.4	
	NORTH DAKOTA	65	15	1.0	7.0	.7	1.3	5.2	20.4	12.0	32.1	1.6	.5	5.6
	SOUTH DAKOTA	66	14	.8	6.5	.6	1.3	4.4	12.2	12.4	24.7	1.8	.7	4.0
	NEBRASKA	142	37	2.5	20.9	1.8	3.8	14.2	53.7	42.7	96.3	19.1	2.2	32.1
	KANSAS	208	60	6.7	64.8	5.4	10.9	48.3	159.2	110.0	267.8	9.5	6.4	91.3
	SOUTH REGION	4 918	1 827	194.0	1 543.8	155.5	319.8	1 134.6	3 707.1	2 826.3	6 499.1	408.2	154.7	2 301.6
	SOUTH ATLANTIC DIVISION	2 359	956	102.9	818.6	82.4	168.0	601.0	1 868.1	1 451.4	3 325.8	204.9	69.4	1 134.9
	DELAWARE	33	16	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.7
	MARYLAND	200	87	10.4	98.7	8.3	17.4	74.7	228.7	161.6	390.3	13.4	10.3	160.7
	DISTRICT OF COLUMBIA	6	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	3.0
	VIRGINIA	284	125	10.6	78.6	8.1	16.5	54.0	190.7	152.1	340.3	17.5	10.0	126.0
	WEST VIRGINIA	181	94	20.5	167.0	17.6	34.1	135.0	339.2	169.8	504.2	26.6	20.0	235.3
	NORTH CAROLINA	391	149	15.0	109.8	12.0	24.6	78.9	254.0	217.1	470.6	31.6	12.6	141.3
	SOUTH CAROLINA	167	64	10.2	80.4	8.5	17.7	61.4	179.1	124.6	303.9	21.7	8.7	106.5
	GEORGIA	446	177	16.9	126.3	12.9	26.4	88.4	300.8	232.6	528.9	43.9	13.8	156.4
	FLORIDA	659	242	18.5	148.9	14.1	29.6	102.4	375.3	372.5	746.2	47.9	12.5	184.9
	EAST SOUTH CENTRAL DIVISION	1 024	368	41.2	329.8	33.2	68.5	242.4	817.9	566.3	1 374.6	96.7	33.9	451.2
	KENTUCKY	237	76	8.9	71.9	7.2	14.3	55.7	186.0	101.5	264.9	22.0	6.2	82.9
	TENNESSEE	315	119	16.9	141.9	13.7	28.9	105.3	358.0	237.8	589.2	43.4	14.4	195.5
	ALABAMA	304	103	8.7	66.2	6.8	13.7	47.5	156.6	126.2	283.0	20.0	8.4	113.7
	MISSISSIPPI	168	70	6.7	49.8	5.5	11.6	39.9	117.2	100.9	217.4	11.4	4.9	59.1
	WEST SOUTH CENTRAL DIVISION	1 535	503	50.0	395.5	40.0	83.3	291.2	1 001.2	808.6	1 798.7	106.6	44.0	618.2
	ARKANSAS	188	45	4.5	32.9	3.6	7.2	24.4	85.1	60.1	142.8	10.3	3.4	48.1
	LOUISIANA	221	73	6.7	54.4	5.3	10.7	39.4	127.6	139.5	267.1	17.0	7.3	104.9
	OKLAHOMA	248	65	8.9	73.3	7.2	14.7	54.8	179.0	102.7	278.0	16.8	6.9	98.9
	TEXAS	878	320	30.0	234.9	23.9	50.8	172.5	609.5	506.3	1 110.9	62.6	26.3	366.4
	WEST REGION	2 776	805	79.7	771.3	61.2	121.4	551.6	1 789.5	1 291.7	3 076.6	169.5	67.3	1 027.3
	MOUNTAIN DIVISION	821	233	19.3	180.4	14.8	29.3	130.5	439.3	312.1	747.7	81.8	13.9	206.5
	MONTANA	81	12	1.0	8.5	.8	1.5	6.6	24.9	17.3	42.4	9.3	.9	14.3
	IDAHO	74	16	1.0	8.4	.8	1.4	5.3	20.8	15.0	35.6	2.0	.9	12.1
	WYOMING	50	15	.9	9.1	.7	1.6	6.5	21.7	13.8	35.1	1.4	.4	6.5
	COLORADO	218	61	6.5	58.2	4.9	9.4	40.5	139.6	99.3	237.5	14.7	5.0	69.6
	NEW MEXICO	81	19	1.4	11.8	1.0	2.1	7.7	31.7	25.2	56.4	4.2	1.0	16.4
	ARIZONA	164	52	4.5	48.2	3.5	7.1	37.2	105.8	71.9	177.1	29.5	2.5	37.4
	UTAH	100	35	2.6	21.5	2.0	4.1	15.7	56.0	40.3	99.1	12.9	2.1	33.5
	NEVADA	53	23	1.4	14.7	1.1	2.1	11.0	35.8	29.3	64.5	7.6	1.0	14.0
	PACIFIC DIVISION	1 955	572	60.6	590.7	46.6	92.0	421.2	1 350.1	979.6	2 328.9	107.7	53.4	621.4
	WASHINGTON	246	62	5.5	55.7	4.1	7.9	38.1	113.9	96.2	209.0	7.0	5.9	91.7
	OREGON	203	36	3.4	32.4	2.7	5.3	24.6	71.8	56.0	127.6	11.7	2.9	45.3
	CALIFORNIA	1 441	460	50.3	486.0	38.8	77.0	347.9	1 126.7	794.6	1 921.7	83.7	43.4	662.6
	ALASKA	24	2	.3	4.5	.2	.3	2.7	6.2	8.3	14.6	1.3	(NA)	(NA)
	HAWAII	41	12	1.1	12.1	.8	1.5	7.7	31.5	24.5	56.0	4.0	1.1	16.4
321	FLAT GLASS	32	30	20.9	241.9	17.0	37.0	194.2	662.1	281.0	937.1	95.0	(NA)	(NA)
	NORTHEAST REGION	5	4	EE	(D)	(D)	(D)	(F)	(D)	(D)	(D)	(D)	FF	(D)
	MIDDLE ATLANTIC DIVISION	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION	10	10	8.0	100.7	6.8	14.8	83.7	278.8	111.3	390.5	31.2	9.5	176.9
	EAST NORTH CENTRAL DIVISION	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OHIO	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MICHIGAN	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	13	13	9.1										

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
321	FLAT GLASS--CONTINUED													
	SOUTH REGION--CONTINUED													
	WEST SOUTH CENTRAL DIVISION. . . .	3	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ARKANSAS	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OKLAHOMA	2	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST REGION.	4	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	PACIFIC DIVISION	4	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CALIFORNIA	4	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
322	GLASS, PRESSED OR BLOWN.	369	225	118.8	1 057.5	103.9	206.7	872.5	2 341.1	1 084.1	3 393.8	176.7	(NA)	(NA)
	NORTHEAST REGION	105	63	37.5	331.6	32.8	65.9	272.6	727.6	345.1	1 064.6	53.9	34.9	495.4
	NEW ENGLAND DIVISION	13	6	2.5	22.3	2.2	4.4	18.3	42.2	27.0	70.8	3.3	2.2	27.2
	RHODE ISLAND	3	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	CONNECTICUT	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	MIDDLE ATLANTIC DIVISION	92	57	34.9	309.3	30.5	61.4	254.3	685.5	318.1	993.8	50.6	32.8	466.2
	NEW YORK	25	13	4.5	44.5	3.8	8.0	33.7	119.9	48.1	164.1	8.0	5.4	116.5
	NEW JERSEY	27	15	15.2	130.8	13.4	26.6	107.5	266.9	140.2	404.8	23.0	13.6	173.6
	PENNSYLVANIA	40	29	15.2	134.0	13.3	26.8	111.1	298.7	129.8	424.9	19.7	13.7	176.1
	NORTH CENTRAL REGION	95	56	35.5	318.4	30.8	60.7	262.9	681.9	312.6	981.8	39.9	34.4	476.1
	EAST NORTH CENTRAL DIVISION. . . .	85	54	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	OHIO	29	22	14.0	124.4	11.8	23.0	101.0	268.4	103.7	363.9	13.4	12.3	163.5
	INDIANA	14	15	8.9	76.5	7.8	15.4	64.8	175.3	84.0	256.7	11.1	9.2	136.8
	ILLINOIS	21	14	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	10.2	122.8
	MICHIGAN	9	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	WISCONSIN	7	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	WEST NORTH CENTRAL DIVISION. . . .	10	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	MINNESOTA	4	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	SOUTH REGION	121	82	35.0	299.8	30.7	61.4	245.7	680.4	315.3	986.8	54.0	30.7	401.4
	SOUTH ATLANTIC DIVISION.	71	51	23.3	198.9	20.4	40.8	164.1	434.6	203.1	633.6	33.7	21.9	284.4
	MARYLAND	3	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	VIRGINIA	5	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	WEST VIRGINIA.	35	32	10.9	89.4	9.6	18.6	73.2	183.4	77.0	257.5	13.2	10.9	136.2
	NORTH CAROLINA	6	5	3.4	28.7	3.0	6.2	24.0	75.1	40.7	115.9	6.0	2.4	20.6
	SOUTH CAROLINA	5	4	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	GEORGIA	4	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	FLORIDA	11	4	1.7	14.8	1.5	3.0	12.5	33.6	20.5	54.3	2.0	1.4	21.6
	EAST SOUTH CENTRAL DIVISION. . . .	15	12	4.9	43.7	4.2	8.8	34.1	107.9	49.8	156.8	9.3	3.4	43.6
	KENTUCKY	4	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	TENNESSEE	6	3	2.1	18.4	1.8	4.0	14.4	39.1	25.0	63.9	4.9	EE	(0)
	ALABAMA	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	MISSISSIPPI	4	4	.8	7.2	.7	1.5	5.8	14.8	7.7	22.1	.6	CC	(0)
	WEST SOUTH CENTRAL DIVISION. . . .	35	19	6.8	57.2	6.0	11.8	47.5	137.9	62.4	196.5	11.0	5.5	73.4
	ARKANSAS	5	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	LOUISIANA	5	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	OKLAHOMA	10	7	3.2	26.3	2.8	5.6	21.7	65.1	25.1	86.0	5.0	2.6	34.3
	TEXAS.	15	7	2.4	20.9	2.1	4.0	17.2	50.6	25.3	75.5	2.4	EE	(0)
	WEST REGION.	48	24	10.9	107.6	9.6	18.7	91.3	251.2	111.1	360.6	26.9	9.1	126.2
	PACIFIC DIVISION	42	22	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	WASHINGTON	2	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	OREGON	2	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	CALIFORNIA	36	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.2	110.2
323	PRODUCTS OF PURCHASED GLASS. . . .	913	284	33.7	296.1	27.0	53.5	211.8	668.9	672.0	1 330.1	34.5	(NA)	(NA)
	NORTHEAST REGION	369	112	13.3	116.1	10.6	21.1	81.9	241.9	235.2	473.2	13.2	12.2	136.9
	NEW ENGLAND DIVISION	46	13	1.3	10.2	1.1	2.1	6.7	24.6	18.1	40.6	.7	(NA)	(NA)
	MASSACHUSETTS.	20	3	.4	3.8	.3	.6	2.1	11.4	9.2	19.2	.5	(NA)	(NA)
	CONNECTICUT.	15	6	.7	5.1	.6	1.2	3.7	10.5	6.4	16.2	.1	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	323	99	12.0	105.8	9.5	19.1	75.2	217.3	217.0	432.6	12.4	(NA)	(NA)
	NEW YORK	158	36	3.8	30.5	3.1	6.2	21.2	63.9	43.7	106.8	1.4	(NA)	(NA)
	NEW JERSEY	93	32	2.8	24.8	2.1	4.3	16.1	47.4	41.1	89.0	2.2	(NA)	(NA)
	PENNSYLVANIA	72	31	5.4	50.5	4.3	8.6	37.8	106.0	132.3	236.8	8.9	(NA)	(NA)
	NORTH CENTRAL REGION	231	80	12.2	119.7	9.9	19.5	90.1	285.7	282.8	564.9	13.0	10.7	179.6
	EAST NORTH CENTRAL DIVISION. . . .	198	72	11.4	113.0	9.2	18.2	85.8	267.3	264.8	528.9	11.9	(NA)	(NA)
	OHIO	65	28	4.2	40.0	3.6	6.8	31.9	99.2	113.1	210.2	5.5	(NA)	(NA)
	INDIANA	15	6	.9	7.0	.7	1.4	5.0	13.6	12.5	25.5	.4	(NA)	(NA)
	ILLINOIS	54	17	2.7	30.5	2.2	4.7	24.4	62.8	53.1	124.7	1.8	(NA)	(NA)
	MICHIGAN	45	16	3.2	33.1	2.4	4.8	23.1	65.8	70.7	155.4	3.5	(NA)	(NA)
	WISCONSIN.	19	5	.3	2.4	.2	.5	1.4	5.9	5.5	11.1	.7	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	33	8	.8	6.7	.7	1.2	4.3	18.4	18.0	36.0	1.0	(NA)	(NA)
	MINNESOTA	9	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	IOWA	3	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MISSOURI	11	3	.2	1.5	.1	.3	.9	3.5	2.6	6.1	(0)	(NA)	(NA)
	KANSAS	6	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION	161	56	5.9	40.9	4.7	9.5	27.3	100.4	111.4	206.5	7.1	4.5	50.0
	SOUTH ATLANTIC DIVISION.	104	40	4.0	26.4	3.3	6.5	17.7	65.3	81.7	144.6	5.6	(NA)	(NA)
	VIRGINIA	8	5	.9	6.6	.8	1.4	4.0	16.3	22.2	37.5	1.0	(NA)	(NA)
	WEST VIRGINIA.	20	5	1.3	5.0	.7	1.3	4.1	11.2	8.8	20.0	.3	(NA)	(NA)
	NORTH CAROLINA	18	9	1.3	9.0	1.1	2.3	5.4	24.4	32.2	55.7	3.2	(NA)	(NA)
	GEORGIA	9	5	.3	1.6	.2	.4	1.1	3.9	5.9	9.5	(0)	(NA)	(NA)
	FLORIDA	38	10	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
323	PRODUCTS OF PURCHASED GLASS--CON.													
	SOUTH REGION--CONTINUED													
	EAST SOUTH CENTRAL DIVISION.	16	6	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	TENNESSEE.	7	3	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	ALABAMA.	1	1	FB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MISSISSIPPI.	3	2	FD	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION.	41	12	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	TEXAS.	24	7	FB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST REGION.	152	34	2.3	19.4	1.7	3.5	12.5	40.9	42.6	83.5	1.3	1.8	21.3
	MOUNTAIN DIVISION.	16	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	PACIFIC DIVISION.	136	31	FE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	CALIFORNIA.	120	31	2.0	17.0	1.5	3.0	10.9	35.9	36.6	72.7	.9	(NA)	(NA)
324	CEMENT, HYDRAULIC.	198	171	30.0	349.2	24.3	49.7	275.2	1 153.5	655.4	1 791.2	179.0	(NA)	(NA)
	NORTHEAST REGION.	32	26	5.1	61.4	4.2	8.6	49.8	164.7	112.1	272.9	22.6	6.5	120.4
	NEW ENGLAND DIVISION.	3	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MAINE.	2	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION.	29	25	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	NEW YORK.	10	8	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	PENNSYLVANIA.	19	17	3.3	38.3	2.6	5.3	32.0	103.8	66.3	172.1	1.1	(NA)	(NA)
	NORTH CENTRAL REGION.	54	48	8.7	103.3	7.1	14.7	81.7	334.6	192.3	516.4	51.2	10.4	277.8
	EAST NORTH CENTRAL DIVISION.	31	26	4.9	50.7	3.9	8.4	46.3	188.9	114.0	295.9	29.0	(NA)	(NA)
	OHIO.	9	8	1.4	16.1	1.1	2.3	12.4	37.7	25.8	62.6	3.3	(NA)	(NA)
	INDIANA.	5	4	.6	7.2	.5	1.0	5.3	33.1	20.4	51.1	3.0	(NA)	(NA)
	ILLINOIS.	4	3	.7	8.7	.6	1.3	7.6	22.3	12.1	33.8	13.9	(NA)	(NA)
	MICHIGAN.	10	9	2.0	25.9	1.6	3.6	14.5	65.7	49.6	132.6	8.7	(NA)	(NA)
	WISCONSIN.	3	2	.2	1.8	.1	.2	1.4	10.0	5.9	15.6	.1	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION.	23	22	3.8	43.5	3.2	6.3	35.4	145.8	78.4	220.4	22.2	(NA)	(NA)
	MINNESOTA.	1	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	IOWA.	5	5	1.1	12.3	.9	1.9	10.4	37.7	21.3	57.9	1.0	(NA)	(NA)
	MISSOURI.	7	7	1.2	14.1	1.0	1.8	10.8	55.9	35.1	69.1	3.0	(NA)	(NA)
	NORTH DAKOTA.	1	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	NEBRASKA.	2	2	FB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	KANSAS.	7	5	.8	6.3	.7	1.3	7.2	26.8	10.7	37.0	(U)	(NA)	(NA)
	SOUTH REGION.	72	63	9.9	110.4	8.0	16.4	86.1	414.6	219.3	630.4	67.7	9.9	252.6
	SOUTH ATLANTIC DIVISION.	23	17	3.0	36.0	2.5	5.4	29.2	142.3	74.5	215.1	19.1	(NA)	(NA)
	MARYLAND.	3	3	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	VIRGINIA.	4	3	FB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST VIRGINIA.	1	1	RB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	NORTH CAROLINA.	2	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	SOUTH CAROLINA.	4	2	RB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	GEORGIA.	3	3	.4	4.9	.4	.8	4.0	16.1	11.6	27.3	1.3	(NA)	(NA)
	FLORIDA.	6	4	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION.	20	16	2.7	30.5	2.2	4.4	24.9	94.9	55.0	149.3	15.3	(NA)	(NA)
	KENTUCKY.	2	2	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	TENNESSEE.	7	6	.8	9.2	.7	1.5	7.9	36.3	14.4	45.0	3.4	(NA)	(NA)
	ALABAMA.	9	6	1.1	12.4	.9	1.6	9.7	38.4	24.3	62.2	1.4	(NA)	(NA)
	MISSISSIPPI.	2	2	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION.	29	24	4.3	44.9	3.2	6.7	31.9	177.6	89.8	266.0	33.2	(NA)	(NA)
	ARKANSAS.	2	2	FB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	LOUISIANA.	4	4	.7	6.1	.5	1.1	4.5	15.7	20.8	36.6	(U)	(NA)	(NA)
	OKLAHOMA.	3	3	FB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	TEXAS.	20	19	2.8	29.7	2.2	4.5	21.4	121.3	54.9	175.6	19.8	(NA)	(NA)
	WEST REGION.	40	34	6.2	74.1	5.0	9.8	57.7	239.4	131.7	371.4	38.1	5.9	153.4
	MOUNTAIN DIVISION.	13	13	1.0	14.7	1.3	2.5	14.6	78.5	34.0	111.2	27.4	(NA)	(NA)
	MONTANA.	2	2	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	COLORADO.	3	3	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	ARIZONA.	2	2	BB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	UTAH.	2	2	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	PACIFIC DIVISION.	27	21	4.6	55.4	3.7	7.3	43.0	160.8	97.7	260.3	10.6	(NA)	(NA)
	WASHINGTON.	5	4	.4	5.0	.3	.6	3.6	17.7	14.7	32.3	.6	(NA)	(NA)
	OREGON.	2	2	RB	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
	CALIFORNIA.	18	13	3.7	44.8	3.0	5.9	35.5	150.4	72.3	204.0	7.6	(NA)	(NA)
	HAWAII.	2	2	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(NA)	(NA)
325	STRUCTURAL CLAY PRODUCTS.	775	529	51.8	391.4	42.5	86.5	287.7	770.6	430.1	1 205.3	64.0	(NA)	(NA)
	NORTHEAST REGION.	132	86	8.4	71.7	6.8	14.0	52.0	152.1	70.9	202.7	7.5	10.2	106.9
	NEW ENGLAND DIVISION.	22	11	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	.9	4.0
	MASSACHUSETTS.	5	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	.4	3.1
	CONNECTICUT.	6	3	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	.3	4.3
	MIDDLE ATLANTIC DIVISION.	110	75	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	9.3	99.9
	NEW YORK.	13	6	.7	6.0	.6	1.2	4.5	12.0	4.7	16.2	.4	1.0	10.9
	NEW JERSEY.	19	9	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	1.4	14.4
	PENNSYLVANIA.	76	60	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	6.8	74.6
	NORTH CENTRAL REGION.	241	158	15.6	128.2	12.6	25.6	93.8	232.2	134.2	368.3	13.3	20.3	210.7
	EAST NORTH CENTRAL DIVISION.	180	115	10.4	80.0	8.7	17.1	61.9	148.0	76.7	225.6	8.0	13.9	137.2
	OHIO.	117	84	7.6	50.4	6.4	12.8	45.9	112.3	56.2	169.8	6.8	9.9	100.3
	INDIANA.	23	12	1.2	8.2	1.0	1.9	6.5	13.2	6.2	19.6	1.0	1.7	14.6
	ILLINOIS.	27	14	1.3	10.3	1.1	2.0	8.1	18.5	11.4	29.3	.7	1.9	18.1
	MICHIGAN.	6	3	.2	2.0	.2	.4	1.3	3.8	2.7	6.5	(Z)	.3	3.6

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
325	STRUCTURAL CLAY PRODUCTS--CON.													
	NORTH CENTRAL REGION--CONTINUED													
	WEST NORTH CENTRAL DIVISION. . . .	61	40	5.5	48.2	4.2	8.5	31.9	34.2	57.5	142.7	4.7	6.4	70.5
	MINNESOTA	9	4	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6B	(U)
	IOWA	15	12	.8	6.0	.7	1.4	4.6	10.7	6.6	17.7	1.1	1.0	9.8
	MISSOURI	20	13	3.5	33.7	2.5	5.2	20.9	60.0	43.9	103.4	3.1	4.3	52.5
	NEBRASKA	6	2	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	KANSAS	7	7	.6	5.1	.5	1.1	4.0	8.9	4.2	13.8	.4	.7	7.1
	SOUTH REGION	285	224	22.5	153.4	18.7	38.7	112.6	326.4	184.4	513.8	31.7	24.0	229.3
	SOUTH ATLANTIC DIVISION.	115	89	11.2	70.3	9.2	19.0	56.8	172.5	94.5	268.5	18.6	11.2	112.8
	MARYLAND	14	9	.7	5.7	.6	1.2	4.6	12.7	6.7	19.6	.8	.8	10.2
	VIRGINIA	14	11	1.0	6.0	.6	1.7	4.8	13.4	5.8	19.4	1.2	1.0	10.4
	WEST VIRGINIA	6	5	CC	(U)	(D)	(D)	(D)	(U)	(D)	(D)	(D)	.7	7.1
	NORTH CAROLINA	33	29	2.6	19.2	2.3	4.7	13.6	36.7	25.4	62.7	4.1	3.0	27.0
	SOUTH CAROLINA	18	15	1.4	9.0	1.1	2.3	5.6	21.8	11.2	33.0	3.1	1.5	12.1
	GEORGIA	16	13	3.7	27.3	2.9	5.9	18.1	59.8	30.4	90.9	5.9	3.2	30.3
	FLORIDA	12	6	1.1	6.9	1.0	2.1	5.9	15.6	9.4	24.9	2.5	CC	(D)
	EAST SOUTH CENTRAL DIVISION. . . .	76	63	5.4	36.3	4.6	9.6	28.0	75.4	49.1	127.3	8.6	6.0	59.3
	KENTUCKY	19	15	1.3	9.3	1.1	2.3	7.5	18.7	10.1	28.9	2.7	1.4	12.3
	TENNESSEE	10	7	1.0	6.2	.8	1.7	5.0	17.3	7.5	25.0	1.0	1.1	12.4
	ALABAMA	26	21	1.6	11.0	1.3	2.8	8.6	20.5	13.8	36.5	1.5	2.1	23.3
	MISSISSIPPI	21	18	1.5	9.8	1.3	2.8	6.8	19.0	17.7	36.9	3.4	1.5	11.2
	WEST SOUTH CENTRAL DIVISION. . . .	94	72	5.9	37.8	4.9	10.1	27.9	78.5	40.8	117.9	4.5	6.7	57.2
	ARKANSAS	10	7	.9	5.9	.7	1.6	4.5	14.1	5.0	19.3	.5	.9	6.3
	LOUISIANA	11	7	.3	1.8	.3	.5	1.3	3.5	1.8	5.4	.2	.3	1.9
	OKLAHOMA	12	11	.5	2.7	.4	.9	2.3	5.6	2.5	8.1	.4	.4	3.7
	TEXAS	61	45	4.3	27.3	3.5	7.2	19.8	55.4	31.5	65.2	3.4	5.1	43.4
	WEST REGION.	117	61	5.0	38.1	4.2	8.2	29.3	79.9	40.7	120.5	11.5	5.8	63.1
	MOUNTAIN DIVISION.	37	23	1.8	12.2	1.5	2.8	9.4	24.5	13.8	38.3	6.9	1.3	11.5
	COLORADO	13	10	1.0	6.7	.8	1.4	4.9	13.2	6.4	19.5	(D)	.8	6.8
	ARIZONA	10	4	.2	1.2	.2	.3	1.1	1.3	1.4	2.8	(D)	(NA)	(NA)
	UTAH	6	4	AB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.4
	PACIFIC DIVISION	80	38	3.2	25.9	2.7	5.4	19.8	55.4	26.9	62.3	2.6	4.5	51.5
	WASHINGTON	11	6	.3	2.0	.2	.5	1.6	5.2	2.5	7.8	.2	.2	3.0
	CALIFORNIA	55	30	2.8	23.6	2.4	4.8	17.8	48.9	23.8	72.6	2.4	4.1	46.9
326	POTTERY AND RELATED PRODUCTS . . .	620	234	44.9	335.3	37.4	73.2	255.7	600.6	235.6	834.8	23.1	(NA)	(NA)
	NORTHEAST REGION	158	70	13.0	104.3	10.6	20.6	75.7	194.4	70.1	264.9	6.7	13.8	149.7
	NEW ENGLAND DIVISION	75	9	1.0	9.1	.8	1.7	6.5	20.4	10.3	30.7	.7	.9	12.1
	MASSACHUSETTS	7	3	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT	11	5	.6	5.3	.5	1.1	4.2	11.3	5.7	17.2	.3	CC	(D)
	MIDDLE ATLANTIC DIVISION	123	61	12.0	98.2	9.6	19.0	69.2	174.0	59.8	234.2	6.0	12.9	137.6
	NEW YORK	40	13	3.1	27.1	2.5	4.7	18.5	45.9	22.0	68.3	1.5	4.1	44.6
	NEW JERSEY	49	29	3.9	30.1	3.1	5.9	21.1	60.7	17.2	77.4	2.2	4.0	44.6
	PENNSYLVANIA	34	19	5.0	38.0	4.2	8.4	29.6	67.4	20.6	88.4	2.3	4.7	48.3
	NORTH CENTRAL REGION	142	66	14.5	110.0	12.3	24.2	87.7	194.5	74.3	267.4	7.5	15.1	142.1
	EAST NORTH CENTRAL DIVISION. . . .	114	62	14.2	107.8	12.0	23.7	86.1	169.8	72.2	260.5	7.4	14.8	139.7
	OHIO	61	39	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	INDIANA	12	5	.6	5.2	.5	1.1	4.3	9.7	5.5	15.0	.3	CC	(D)
	ILLINOIS	26	12	2.6	18.6	2.3	4.5	15.1	31.3	10.8	41.9	1.0	EE	(D)
	MICHIGAN	10	3	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	12.8
	WISCONSIN	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST NORTH CENTRAL DIVISION. . . .	28	4	.3	2.2	.3	.6	1.5	4.7	2.2	7.0	.1	.3	2.3
	MISSOURI	7	3	.3	1.9	.2	.5	1.3	4.2	2.0	6.3	(D)	(NA)	(NA)
	SOUTH REGION	142	46	10.1	67.8	8.6	16.5	54.2	120.0	54.3	173.6	5.0	9.1	70.5
	SOUTH ATLANTIC DIVISION.	73	18	5.4	36.3	4.7	9.0	29.7	56.7	30.5	80.9	2.2	4.5	30.0
	MARYLAND	3	2	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WEST VIRGINIA	14	8	2.9	17.2	2.5	4.8	14.4	23.5	12.0	35.1	.5	3.1	19.4
	SOUTH CAROLINA	4	2	FE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6B	(D)
	GEORGIA	15	4	AB	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	34	17	2.9	19.3	2.5	4.9	14.8	32.6	12.7	45.1	1.4	2.3	16.9
	KENTUCKY	14	6	.7	4.2	.7	1.3	3.5	8.7	3.6	12.1	.8	6B	(D)
	TENNESSEE	13	9	1.6	12.7	1.5	3.0	9.2	17.7	6.4	24.0	.6	1.7	11.0
	ALABAMA	4	1	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSISSIPPI	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	35	11	1.8	12.1	1.4	2.6	9.6	30.6	11.1	41.6	1.3	1.2	15.6
	LOUISIANA	2	1	6B	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6B	(D)
	OKLAHOMA	5	2	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	24	7	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WEST REGION.	174	52	7.3	53.3	5.9	11.8	38.2	91.8	36.8	128.8	3.9	5.7	55.4
	MOUNTAIN DIVISION.	18	2	FE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	COLORADO	6	2	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	PACIFIC DIVISION	160	50	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	CALIFORNIA	135	47	5.6	40.4	4.7	9.3	29.4	71.7	29.5	101.5	(D)	FF	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
327	CONCRETE, GYPSUM, PLASTER PRODS. . .	10 115	2 820	193.1	1 741.0	139.4	287.3	1 141.1	3 839.7	3 926.4	7 746.4	453.1	(NA)	(NA)
	NORTHEAST REGION	1 634	472	32.7	329.1	23.3	48.7	212.8	600.9	656.7	1 335.8	68.3	31.1	482.0
	NEW ENGLAND DIVISION	421	123	8.3	82.1	6.0	12.5	53.4	175.3	153.6	328.3	19.8	7.2	120.9
	MAINE	36	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	3.0
	NEW HAMPSHIRE	43	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	12.5
	VERMONT	26	7	.5	4.5	.3	.5	1.9	8.8	8.3	16.9	1.5	.3	5.1
	MASSACHUSETTS	174	43	3.8	38.7	2.8	5.8	26.0	79.5	70.5	149.8	9.0	3.2	52.7
	RHODE ISLAND	26	8	.4	4.2	.3	.6	2.5	9.1	7.7	16.9	.5	.4	7.6
	CONNECTICUT	116	39	2.1	22.7	1.6	3.3	14.9	46.9	42.2	89.4	4.2	1.9	35.0
	MIDDLE ATLANTIC DIVISION	1 213	349	24.4	247.0	17.3	36.2	159.4	505.6	503.2	1 007.5	48.7	23.9	361.1
	NEW YORK	486	130	10.2	114.0	7.0	14.3	70.1	214.8	223.0	437.7	24.7	4.9	184.3
	NEW JERSEY	240	94	5.9	59.1	4.0	8.6	37.0	128.9	129.6	259.0	10.7	5.5	97.5
	PENNSYLVANIA	487	125	8.4	74.0	6.3	13.3	52.3	161.9	150.5	310.8	13.3	6.5	169.3
	NORTH CENTRAL REGION	3 378	771	52.6	502.5	38.1	77.6	327.8	1 076.4	1 056.1	2 121.2	127.7	49.9	787.6
	EAST NORTH CENTRAL DIVISION	2 165	516	34.7	347.0	25.0	51.4	225.3	748.2	736.5	1 475.5	93.2	33.7	556.1
	OHIO	951	146	10.0	95.9	7.2	15.0	63.2	211.1	202.5	411.5	23.6	10.3	158.1
	INDIANA	334	74	5.5	51.2	3.8	7.8	32.1	119.2	104.4	222.6	19.8	5.2	85.6
	ILLINOIS	484	118	8.0	81.3	5.8	11.6	53.4	168.8	180.9	348.7	23.3	6.7	114.4
	MICHIGAN	489	112	7.1	76.0	5.1	10.5	48.8	165.7	170.2	334.1	15.7	7.4	129.6
	WISCONSIN	307	66	4.2	42.6	3.1	6.5	27.8	63.4	78.5	161.5	10.5	4.2	63.2
	WEST NORTH CENTRAL DIVISION	1 213	255	17.9	155.5	13.1	26.2	102.5	328.2	319.5	645.7	34.5	16.2	231.4
	MINNESOTA	278	54	4.2	38.7	3.0	6.1	24.7	75.1	72.4	147.5	6.6	FF	(D)
	IOWA	282	47	3.7	32.3	2.8	5.9	22.2	75.6	69.2	144.5	5.6	3.8	62.7
	MISSOURI	280	60	4.9	42.1	3.6	6.7	28.8	85.9	87.0	172.1	9.0	4.2	53.0
	NORTH DAKOTA	58	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6H	(D)
	SOUTH DAKOTA	56	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	NEBRASKA	108	29	1.7	14.2	1.1	2.5	6.6	34.7	33.9	66.3	(D)	1.6	14.8
	KANSAS	151	34	2.2	19.1	1.6	3.2	12.1	37.7	38.4	75.7	3.7	2.1	27.4
	SOUTH REGION	3 378	1 093	73.2	557.1	53.8	113.2	368.1	1 367.6	1 467.3	2 769.5	168.5	59.2	760.6
	SOUTH ATLANTIC DIVISION	1 641	621	39.2	305.4	28.3	58.6	197.2	719.3	794.4	1 509.8	96.2	30.6	390.0
	DELAWARE	23	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	MARYLAND	144	57	4.0	37.4	2.9	6.1	24.8	93.0	91.8	184.4	6.7	3.4	56.3
	DISTRICT OF COLUMBIA	5	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
	VIRGINIA	220	47	6.0	45.3	4.4	9.0	30.0	109.4	96.8	205.7	10.6	5.1	62.3
	WEST VIRGINIA	86	31	1.6	11.0	1.1	2.2	7.7	26.1	29.0	58.7	7.1	1.2	12.5
	NORTH CAROLINA	265	85	4.9	34.7	3.5	7.4	22.9	79.6	91.7	171.0	16.9	4.1	46.1
	SOUTH CAROLINA	104	34	2.5	17.2	1.9	3.9	11.7	36.0	44.5	80.8	4.9	2.1	23.1
	GEORGIA	277	102	6.4	48.9	4.4	9.3	30.4	114.9	127.3	240.5	19.2	5.4	62.7
	FLORIDA	517	210	12.9	102.1	9.3	19.6	64.0	242.0	293.8	535.3	35.2	8.2	100.7
	EAST SOUTH CENTRAL DIVISION	721	194	11.3	92.3	8.5	17.4	51.7	193.9	199.3	390.7	29.1	10.6	127.6
	KENTUCKY	169	36	2.1	16.0	1.4	2.8	9.8	36.2	39.0	74.8	4.4	1.9	24.9
	TENNESSEE	212	71	4.0	27.7	2.9	6.0	17.6	67.8	65.9	132.7	8.4	3.9	44.7
	ALABAMA	221	53	3.5	23.5	2.5	5.2	14.6	51.4	57.3	108.1	11.3	3.1	35.7
	MISSISSIPPI	119	34	2.2	15.1	1.7	3.4	9.7	38.6	37.1	75.0	4.5	1.7	22.3
	WEST SOUTH CENTRAL DIVISION	1 016	278	22.1	169.4	17.1	37.1	119.3	394.3	473.6	869.0	43.2	17.9	243.1
	ARKANSAS	136	22	1.8	12.3	1.4	3.0	9.2	31.4	33.6	64.5	7.8	1.3	17.3
	LOUISIANA	172	50	3.7	28.7	2.8	5.7	19.4	65.5	83.0	148.2	5.9	3.7	50.3
	OKLAHOMA	171	29	3.0	23.8	2.2	4.6	15.1	56.3	54.7	110.9	4.7	2.1	30.0
	TEXAS	535	177	13.6	104.5	10.6	23.9	75.5	241.1	302.3	545.3	24.9	10.9	144.7
	WEST REGION	1 725	484	34.6	352.3	24.1	47.8	232.3	774.8	746.3	1 519.8	88.5	29.0	447.9
	MOUNTAIN DIVISION	603	168	12.6	121.5	9.3	18.5	86.7	275.0	231.5	505.2	41.1	8.9	124.5
	MONTANA	64	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	IDAHO	59	12	.9	7.0	.6	1.2	4.3	15.9	13.2	28.9	1.9	.8	7.5
	WYOMING	43	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	COLORADO	147	34	3.0	28.4	2.1	3.9	19.4	66.1	67.7	133.5	9.0	2.2	29.5
	NEW MEXICO	60	16	1.1	9.1	.7	1.6	5.8	21.6	20.1	41.5	1.1	.8	11.3
	ARIZONA	119	42	3.6	40.4	2.8	5.8	30.8	62.5	55.0	137.3	14.7	2.0	20.6
	UTAH	72	25	1.6	13.1	1.2	2.4	9.4	35.1	29.1	63.7	2.0	1.4	21.4
	NEVADA	39	20	1.1	12.5	.8	1.6	6.4	27.5	24.4	52.0	6.4	.8	12.3
	PACIFIC DIVISION	1 122	316	22.0	236.8	14.9	29.2	145.7	499.8	514.7	1 014.6	47.4	20.1	323.3
	WASHINGTON	171	47	3.5	30.9	2.5	4.4	23.6	84.9	65.3	128.8	5.2	4.2	63.6
	OREGON	139	25	2.1	20.2	1.6	3.1	14.6	44.6	39.6	84.2	10.8	1.7	25.0
	CALIFORNIA	766	232	15.4	160.3	10.1	19.9	98.7	302.6	382.2	746.3	28.1	13.2	210.6
	ALASKA	23	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	HAWAII	23	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	11.0
328	CUT STONE AND STONE PRODUCTS . . .	908	192	15.0	109.2	12.6	24.2	84.7	191.4	117.6	304.5	12.5	(NA)	(NA)
	NORTHEAST REGION	248	59	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	NEW ENGLAND DIVISION	152	35	3.0	24.7	2.5	5.0	19.0	42.4	20.2	58.9	3.0	(NA)	(NA)
	MAINE	5	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VERMONT	90	26	2.0	15.8	1.7	3.3	12.7	27.7	20.1	47.3	(D)	(NA)	(NA)
	MASSACHUSETTS	29	4	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT	16	1	.2	1.4	.1	.3	1.1	2.9	1.7	4.3	1.4	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	136	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	68	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA	49	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION	215	50	4.3	34.4	3.5	6.7	26.3	60.0	36.1	94.8	2.3	5.7	53.3
	EAST NORTH CENTRAL DIVISION	138	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OHIO	37	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	INDIANA	36	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	28	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)			

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
328	CUT STONE AND STONE PRODUCTS--CON.													
	SOUTH REGION	295	70	5.1	32.1	4.4	8.6	25.2	54.3	32.1	86.5	(D)	4.9	59.1
	SOUTH ATLANTIC DIVISION	167	45	3.4	21.6	2.9	5.7	17.1	35.7	19.5	54.4	1.6	(NA)	(NA)
	VIRGINIA	10	4	.2	1.3	.2	.3	1.0	2.1	.9	3.0	.1	(NA)	(NA)
	NORTH CAROLINA	21	6	.6	7.7	.5	.9	2.8	5.4	2.5	7.8	.4	(NA)	(NA)
	GEORGIA	94	32	2.3	14.3	2.0	3.9	11.6	24.6	14.3	38.0	.8	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	47	7	.8	4.3	.7	1.4	3.5	8.6	5.9	14.5	.4	(NA)	(NA)
	TENNESSEE	26	3	.4	2.0	.3	.6	1.6	3.4	2.8	6.2	(D)	(NA)	(NA)
	MISSISSIPPI	6	2	.4A	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	81	16	1.0	6.2	.8	1.4	4.6	10.1	6.6	16.6	.6	(NA)	(NA)
	OKLAHOMA	12	4	.2	1.0	.2	.3	.7	1.6	.9	2.4	.1	(NA)	(NA)
	TEXAS	54	12	.7	4.6	.5	1.0	3.4	7.4	4.8	12.2	.4	(NA)	(NA)
	WEST REGION	110	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	MOUNTAIN DIVISION	35	3	.2	1.1	.2	.3	.9	2.5	1.1	3.6	.2	(NA)	(NA)
	PACIFIC DIVISION	75	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	60	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
329	MISC. NONMETALLIC MINERAL PRODS.	2 085	816	115.1	1 025.4	68.5	179.9	714.5	2 358.8	1 660.5	3 994.4	157.0	(NA)	(NA)
	NORTHEAST REGION	583	275	41.6	391.0	30.6	61.4	256.6	814.5	562.0	1 374.3	49.7	(NA)	(NA)
	NEW ENGLAND DIVISION	129	66	11.7	112.7	8.2	16.1	66.7	224.2	140.1	365.7	8.4	(NA)	(NA)
	NEW HAMPSHIRE	12	5	1.4	10.8	1.0	2.2	6.8	17.1	8.8	25.5	.9	(NA)	(NA)
	MASSACHUSETTS	71	34	7.1	71.6	4.6	8.8	38.8	149.1	86.0	232.6	5.8	(NA)	(NA)
	CONNECTICUT	38	24	3.1	29.8	2.4	5.0	20.2	54.9	42.6	102.0	1.6	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	454	209	29.9	278.3	22.4	45.3	190.0	590.3	421.9	1 006.7	41.3	(NA)	(NA)
	NEW YORK	164	58	11.0	102.4	8.1	16.1	66.6	212.0	156.2	369.1	7.4	(NA)	(NA)
	NEW JERSEY	122	54	8.3	79.5	6.2	12.8	55.8	180.6	127.7	305.8	21.0	(NA)	(NA)
	PENNSYLVANIA	168	97	10.6	96.4	8.1	16.4	67.5	197.7	138.1	333.7	12.6	(NA)	(NA)
	NORTH CENTRAL REGION	649	263	39.3	354.9	30.4	62.2	254.1	851.0	629.4	1 468.8	47.3	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	537	233	34.5	309.5	26.5	54.1	216.3	734.5	542.5	1 267.0	42.5	(NA)	(NA)
	OHIO	163	72	11.8	108.0	9.2	18.9	79.7	271.8	181.4	452.2	14.5	(NA)	(NA)
	INDIANA	52	31	5.3	44.3	4.3	8.8	33.5	94.4	62.0	156.1	6.3	(NA)	(NA)
	ILLINOIS	155	71	12.0	108.6	8.8	18.0	73.7	252.3	180.9	427.3	12.6	(NA)	(NA)
	MICHIGAN	114	46	3.8	34.9	2.8	5.7	21.6	76.7	75.6	150.5	3.5	(NA)	(NA)
	WISCONSIN	53	11	1.7	13.9	1.4	2.8	9.9	39.2	42.5	80.9	3.6	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	112	30	4.8	45.4	3.9	8.1	35.7	116.6	66.9	201.8	4.8	(NA)	(NA)
	MINNESOTA	20	5	.5	4.1	.4	.7	2.7	10.8	17.3	27.8	1.1	(NA)	(NA)
	MISSOURI	49	12	1.3	11.8	1.1	2.3	8.6	23.7	18.1	41.1	1.1	(NA)	(NA)
	KANSAS	17	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	451	178	23.2	179.0	19.0	38.9	132.5	456.8	311.0	750.7	45.1	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	149	69	9.8	75.8	8.0	16.6	57.0	163.3	123.0	305.9	24.8	(NA)	(NA)
	MARYLAND	15	10	1.5	13.0	1.3	2.7	10.7	27.3	21.1	49.7	2.5	(NA)	(NA)
	VIRGINIA	18	11	1.5	10.9	1.3	2.5	8.4	22.4	14.5	37.0	1.6	(NA)	(NA)
	WEST VIRGINIA	12	7	1.0	9.2	.8	1.7	7.0	22.1	12.9	34.6	2.8	(NA)	(NA)
	NORTH CAROLINA	33	12	1.7	11.6	1.4	2.6	7.9	23.4	19.8	43.0	2.0	(NA)	(NA)
	SOUTH CAROLINA	11	7	.5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	30	15	1.7	12.7	1.4	2.8	9.1	41.2	26.9	67.8	12.1	(NA)	(NA)
	FLORIDA	34	7	1.3	10.9	1.0	2.2	8.4	32.6	18.8	50.7	2.9	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	91	47	7.3	54.7	6.0	12.0	40.5	140.5	84.0	221.2	8.9	(NA)	(NA)
	KENTUCKY	19	12	2.7	21.9	2.3	4.5	17.2	58.8	25.4	82.9	1.7	(NA)	(NA)
	TENNESSEE	30	11	2.1	17.5	1.7	3.1	8.1	30.2	15.7	44.8	2.0	(NA)	(NA)
	ALABAMA	32	17	1.3	9.3	1.0	2.1	6.7	23.0	20.2	42.4	3.7	(NA)	(NA)
	MISSISSIPPI	10	7	1.3	11.0	1.0	2.3	8.5	28.5	22.7	51.1	1.6	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	201	62	6.1	48.6	4.9	10.2	35.1	132.9	104.0	232.6	11.4	(NA)	(NA)
	ARKANSAS	15	4	.3	1.9	.3	.5	1.3	4.5	5.1	8.6	.2	(NA)	(NA)
	LOUISIANA	19	7	.7	6.3	.6	1.3	4.8	14.6	20.0	34.3	.6	(NA)	(NA)
	OKLAHOMA	22	5	.4	2.7	.3	.7	1.7	5.5	5.1	10.6	.5	(NA)	(NA)
	TEXAS	145	46	4.6	37.5	3.7	7.8	27.2	108.2	73.8	178.6	10.1	(NA)	(NA)
	WEST REGION	402	100	11.1	100.5	8.5	17.5	71.3	236.5	158.1	391.6	14.9	(NA)	(NA)
	MOUNTAIN DIVISION	93	19	1.4	11.9	1.2	2.4	8.6	32.9	18.2	50.0	2.8	(NA)	(NA)
	COLORADO	29	8	.5	4.1	.4	.8	2.8	10.1	5.8	15.9	.6	(NA)	(NA)
	UTAH	11	4	.4	2.7	.3	.7	1.9	6.3	4.0	10.2	.5	(NA)	(NA)
	NEVADA	10	2	.4A	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	309	81	9.6	88.6	7.4	15.1	62.6	203.6	139.8	341.6	12.1	(NA)	(NA)
	WASHINGTON	32	4	.5	4.5	.4	.8	3.2	9.1	6.9	16.2	.6	(NA)	(NA)
	OREGON	27	3	.3	2.4	.2	.5	1.9	5.2	2.5	7.7	.5	(NA)	(NA)
	CALIFORNIA	245	74	8.8	81.6	6.7	13.8	57.4	188.9	130.2	317.0	11.1	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Stone, clay, and glass products (SIC 32)	Flat glass (SIC 321)	Glass and glassware, pressed or blown (SIC 322)	Products of purchased glass (SIC 323)	Cement, hydraulic (SIC 324)	Structural clay products (SIC 325)	Pottery and related products (SIC 326)	Concrete, gypsum, and plaster products (SIC 327)	Cut stone and stone products (SIC 328)	Miscel- laneous nonmetallic mineral products (SIC 329)
ESTABLISHMENTS, TOTALNUMBER .	16 015	32	369	913	198	775	620	10 115	908	2 085
WITH 1 TO 19 EMPLOYEESDO . .	10 714	2	144	629	27	246	386	7 295	716	1 269
WITH 20 TO 99 EMPLOYEESDO . .	4 035	4	31	207	32	379	134	2 528	168	552
WITH 100 EMPLOYEES OR MOREDO . .	1 266	26	194	77	139	150	100	292	24	264
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	623.2	20.9	118.8	33.7	30.0	51.8	44.9	193.1	15.0	115.1
PAYROLL FOR YEAR, ALL EMPLOYEESMILLION DOLLARS .	5 546.9	241.9	1 057.5	246.1	349.2	391.4	335.3	1 741.0	109.2	1 025.4
PRODUCTION WORKERS:										
AVERAGE FOR YEAR1,000 .	492.6	17.0	103.9	27.0	24.3	42.5	37.4	139.4	12.6	80.5
MARCHDO . .	471.1	15.7	100.5	26.4	23.6	41.0	36.3	128.6	12.4	85.5
MAYDO . .	492.5	17.0	104.3	26.3	24.3	42.7	36.9	141.0	12.9	87.3
AUGUSTDO . .	506.8	17.0	106.0	27.2	25.0	43.7	37.8	147.8	12.8	89.6
NOVEMBERDO . .	499.9	17.5	104.8	26.1	24.3	42.7	38.7	139.9	12.4	91.5
MAN-HOURSMILLIONS .	998.1	37.0	206.7	53.5	49.7	86.5	73.2	287.3	24.2	179.9
JANUARY-MARCHDO . .	234.9	9.0	50.1	12.9	12.2	20.5	17.7	63.7	5.8	42.9
APRIL-JUNEDO . .	253.2	9.3	52.6	13.2	12.5	22.0	18.3	63.5	6.5	45.4
JULY-SEPTEMBERDO . .	257.6	9.2	52.3	13.2	12.7	22.3	17.8	79.0	6.1	45.0
OCTOBER-DECEMBERDO . .	252.4	9.6	51.7	14.2	12.3	21.7	19.4	71.0	5.9	46.7
WAGESMILLION DOLLARS .	4 037.3	194.2	872.5	211.8	275.2	287.7	255.7	1 141.1	84.7	714.5
COST OF MATERIALS, ETC., TOTAL ¹DO . .	9 062.6	281.0	1 084.1	672.0	655.4	430.1	235.6	3 920.4	117.6	1 660.5
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMEDDO . .	7 310.8	220.8	877.3	576.0	347.8	268.2	191.9	3 324.8	96.3	1 405.6
COST OF RESALESDO . .	682.4	18.0	21.6	71.3	15.4	60.2	19.9	348.1	7.3	120.7
FUELS CONSUMEDDO . .	660.1	31.7	113.4	8.6	189.9	75.1	14.1	154.3	2.7	70.4
PURCHASED ELECTRIC ENERGYDO . .	306.1	10.4	55.9	8.7	91.0	22.0	8.1	53.7	4.2	52.1
CONTRACT WORKDO . .	103.3	.2	16.0	5.3	11.3	4.6	1.7	45.6	7.1	11.7
VALUE OF SHIPMENTS, INCLUDING RESALES ¹DO . .	21 537.5	937.1	3 393.8	1 330.1	1 791.2	1 205.3	834.8	7 746.4	304.5	3 994.4
VALUE OF RESALESDO . .	838.0	17.0	24.4	86.0	17.3	74.6	28.2	432.8	7.8	150.0
VALUE ADDED BY MANUFACTUREDO . .	12 586.5	662.1	2 341.1	668.9	1 153.5	770.6	600.6	3 839.7	191.4	2 356.8
MANUFACTURERS' INVENTORIES:										
BEGINNING OF YEAR, TOTALDO . .	2 354.1	92.1	421.3	190.5	218.5	206.7	116.8	515.0	36.3	556.0
FINISHED PRODUCTSDO . .	1 249.0	27.7	296.3	100.2	69.1	134.4	46.2	283.0	12.7	276.3
WORK IN PROCESSDO . .	332.4	29.3	32.0	39.1	34.0	13.0	33.5	45.7	10.1	95.7
MATERIALS, SUPPLIES, FUEL, ETC.DO . .	772.6	35.1	93.0	51.2	115.3	59.3	34.1	186.2	13.6	184.6
END OF YEAR, TOTALDO . .	2 490.9	100.7	459.6	209.6	239.3	204.1	121.7	536.1	40.7	578.9
FINISHED PRODUCTSDO . .	1 314.2	27.8	328.8	105.4	61.4	127.4	49.6	295.7	15.1	283.0
WORK IN PROCESSDO . .	359.8	35.3	29.9	44.0	34.3	13.6	34.5	43.4	11.4	106.3
MATERIALS, SUPPLIES, FUEL, ETC.DO . .	816.9	37.7	101.1	60.2	118.5	62.9	37.6	197.0	14.2	187.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO . .	1 257.4	95.1	181.6	35.7	181.8	67.9	23.8	489.0	13.4	169.1
NEW PLANT AND EQUIPMENT, TOTALDO . .	1 195.5	95.0	176.7	34.5	179.5	64.0	23.1	453.1	12.6	157.0
NEW STRUCTURES AND ADDITIONS TO PLANTDO . .	222.2	11.8	38.1	7.7	34.5	14.2	7.1	76.4	4.0	26.7
NEW MACHINERY AND EQUIPMENTDO . .	973.3	83.3	138.6	26.8	145.0	49.8	16.0	376.7	6.7	126.4
USED PLANT AND EQUIPMENTDO . .	61.9	.1	4.9	1.2	2.3	3.9	.7	35.9	.8	12.0

¹The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Glass Products

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EXPLANATORY TEXT

Glass Products

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

3211—Flat Glass

3221—Glass Containers

3229—Pressed and Blown Glass and Glassware, N.E.C.*

3231—Glass Products, Made of Purchased Glass*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3211.—FLAT GLASS

This industry comprises establishments primarily engaged in manufacturing flat glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in industry 3231. For a detailed list of products of industry 3211, refer to table 6A.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Flat Glass Industry in 1972 totaled \$937 million. This included shipments of flat glass (primary products) and other products

(secondary products) valued at \$920 million and miscellaneous receipts (mainly resales) of \$18 million.

Shipments of flat glass (primary products) in 1972 represented more than 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also more than 85 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3211, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3221.—GLASS CONTAINERS

This industry comprises establishments primarily engaged in manufacturing glass containers for commercial packing and bottling and for home canning. For a detailed list of products of industry 3221, refer to table 6A, product codes 32210 11 to 32210 62.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Glass Containers Industry in 1972 totaled \$2,126 million. This included shipments of glass containers (primary products) valued at \$2,080 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly resales) of \$24 million.

Shipments of glass containers (primary products) in 1972 represented 99 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 99 percent. Secondary products shipped by this industry in 1972 consisted mainly of pressed and blown glass, n.e.c., (\$17 million) and corrugated and solid fiber boxes (over \$2 million).

Shipments of glass containers (primary products) from establishments classified in industry 3221 in 1972 represented 99 percent (coverage ratio) of these products valued at \$2,085 million shipped by all industries. In 1967, the coverage ratio was also 99 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail

*Note that the "short title" for this industry is used throughout the report.

portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3221, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3229.—PRESSED AND BLOWN GLASS, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment. This industry also includes establishments primarily engaged in manufacturing textile glass fibers, but establishments primarily engaged in manufacturing glass wool insulation products are classified in industry 3296.

Establishments primarily engaged in the production of pressed lenses for vehicular lighting, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in industry 3832. Establishments primarily engaged in manufacturing glass containers are classified in industry 3221, and complete electric light bulbs in industry 3641.

For a detailed list of products of industry 3229, refer to table 6A, product codes 32291 21 to 32294 29.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Pressed and Blown Glass, N.E.C., Industry in 1972 totaled \$1,267 million. This included shipments of pressed and blown glass, n.e.c., (primary products) valued at \$1,215 million, shipments of other products (secondary products) valued at \$44 million, and miscellaneous receipts (mainly resales) of \$8 million.

Shipments of pressed and blown glass, n.e.c., (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent. Secondary products shipped by this industry in 1972 consisted mainly of household cooking equipment and flat glass.

Shipments of pressed and blown glass, n.e.c., (primary products) from establishments classified in industry 3229 in 1972 represented 96 percent (coverage ratio) of these products valued at \$1,262 million shipped by all industries. In 1967, the

coverage ratio was 98 percent. Other industries shipping pressed and blown glass, n.e.c., consisted mainly of industry 3221, Glass Containers; industry 3296, Mineral Wool; and industry 3564, Blowers and Fans.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the the time data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3229, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3231.—PRODUCTS OF PURCHASED GLASS (Short Title)

This industry comprises establishments primarily engaged in manufacturing glass products from purchased glass. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in SIC Major Group 38. For a detailed list of products of industry 3231, refer to table 6A, product codes 32315 11 to 32316 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Products of Purchased Glass Industry in 1972 totaled \$1,328 million. This included shipments of products of purchased glass (primary products) and other products (secondary products) valued at \$1,232 million and miscellaneous receipts (mainly resales) of \$96 million.

Shipments of products of purchased glass (primary products) in 1972 represented over 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also over 90 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3231, these establishments accounted for 7 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3211.--FLAT GLASS															
1972 Census.....	31	30	20.9	242.0	17.0	37.1	194.2	662.3	281.0	937.2	95.0	(NA)	100.7	² 85	(D)
1971 ASM.....	(NA)	(NA)	20.2	212.8	16.7	35.2	170.6	569.0	240.3	811.1	72.6	821.0	98.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	19.6	198.1	16.0	33.8	157.4	457.4	212.7	668.0	75.5	781.9	102.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	22.4	213.4	18.5	39.0	171.2	514.1	223.1	723.8	48.9	746.7	101.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	22.0	196.4	18.4	39.2	158.7	479.6	202.0	679.9	33.4	724.4	84.8	(NA)	(NA)
1967 Census.....	33	32	23.9	196.6	19.8	40.2	157.6	422.9	194.7	611.3	59.9	761.4	93.1	² 85	(D)
1966 ASM.....	(NA)	(NA)	24.9	205.9	21.0	43.8	169.5	431.2	205.2	638.1	74.4	(NA)	89.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	25.3	205.3	21.5	45.5	171.7	461.7	216.7	676.5	40.6	(NA)	87.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	22.5	178.7	19.1	41.6	149.4	382.5	195.0	569.5	22.3	583.4	81.4	(NA)	(NA)
1963 Census.....	31	30	22.8	172.2	19.4	39.7	143.8	364.5	185.9	549.4	28.2	566.4	72.7	² 90	(D)
1962 ASM.....	(NA)	(NA)	22.4	162.6	19.1	38.8	136.0	315.2	176.2	490.7	34.0	542.1	71.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	21.2	146.2	17.9	35.5	120.7	284.6	164.7	448.5	39.0	(NA)	69.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	23.5	167.6	20.0	41.5	140.2	345.2	180.5	529.9	36.1	(NA)	70.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	27.3	180.6	23.8	47.0	156.0	400.5	174.9	557.4	18.9	(NA)	78.5	(NA)	(NA)
1958 Census.....	32	31	21.2	133.6	17.6	35.9	110.7	263.2	115.1	384.7	21.6	(NA)	55.2	² 90	(D)
INDUSTRY 3221.--GLASS CONTAINERS															
1972 Census.....	117	115	72.9	659.4	64.5	128.1	554.8	1,399.7	746.9	2,126.5	121.1	(NA)	271.9	99	99
1971 ASM.....	(NA)	(NA)	72.2	608.2	63.9	125.7	511.5	1,284.7	697.1	1,943.6	119.5	1,147.3	245.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	74.3	578.6	66.3	131.1	491.0	1,219.2	649.9	1,857.7	125.7	1,063.5	205.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	71.5	518.8	63.5	124.4	439.0	1,112.4	587.7	1,664.7	118.0	969.0	189.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	63.9	435.4	56.4	110.0	367.5	907.4	495.5	1,407.3	74.3	853.3	149.9	(NA)	(NA)
1967 Census.....	120	112	66.7	426.1	59.4	119.4	362.3	842.2	489.1	1,352.4	70.8	826.4	154.3	99	99
1966 ASM.....	(NA)	(NA)	64.5	391.3	57.4	115.1	332.4	763.1	460.9	1,207.5	116.8	(NA)	172.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	61.5	358.3	54.8	109.0	303.4	679.4	418.3	1,091.8	72.3	(NA)	151.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	60.4	340.9	53.8	108.8	279.7	646.6	414.4	1,055.9	59.5	628.3	143.6	(NA)	(NA)
1963 Census.....	113	105	60.0	328.0	53.5	107.1	278.7	629.6	392.5	1,004.5	53.8	574.2	137.3	99	99
1962 ASM.....	(NA)	(NA)	60.0	326.7	53.3	106.9	276.0	613.0	375.5	987.6	53.6	532.1	124.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	60.2	314.5	53.7	106.6	265.1	601.2	366.7	967.4	68.9	(NA)	125.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	58.5	298.3	52.0	104.3	251.4	567.5	375.2	939.2	34.8	(NA)	122.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	56.2	271.9	50.1	98.8	228.9	561.3	354.6	915.6	32.9	(NA)	110.5	(NA)	(NA)
1958 Census.....	100	92	54.9	259.9	48.6	97.6	218.4	532.5	333.6	862.1	31.2	(NA)	106.9	99	99
INDUSTRY 3229.--PRESSED AND BLOWN GLASS, N.E.C.															
1972 Census.....	252	110	45.9	398.1	39.3	78.6	317.7	941.4	337.2	1,267.3	55.7	(NA)	187.9	96	96
1971 ASM.....	(NA)	(NA)	43.8	343.4	37.0	72.0	268.8	802.4	312.3	1,108.4	54.8	859.8	176.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	44.0	327.3	37.4	73.6	259.5	741.0	290.1	1,017.4	78.1	838.9	165.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	46.4	327.3	40.0	79.2	262.4	756.5	278.9	1,023.3	76.4	748.3	150.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	44.9	294.3	38.8	77.4	238.0	722.9	265.2	987.3	63.7	670.6	136.4	(NA)	(NA)
1967 Census.....	185	113	42.5	262.3	36.5	72.2	211.6	658.9	237.2	886.2	81.9	618.5	128.6	97	98
1966 ASM.....	(NA)	(NA)	43.2	266.5	37.9	76.3	222.2	708.7	233.8	926.6	92.5	(NA)	120.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	39.8	232.4	34.7	68.7	191.1	569.2	220.5	787.7	54.7	(NA)	105.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	38.4	216.5	32.7	65.9	175.7	529.8	211.0	731.0	38.8	406.0	161.6	(NA)	(NA)
1963 Census.....	107	95	38.0	207.3	33.1	64.9	167.9	472.2	167.5	630.9	22.7	379.0	95.4	96	97
1962 ASM.....	(NA)	(NA)	38.1	199.7	33.1	64.7	161.2	448.1	174.5	619.5	24.4	366.5	89.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	37.4	190.4	32.4	62.7	153.8	425.3	163.9	584.8	27.6	(NA)	89.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	37.1	181.8	34.3	67.5	162.1	408.8	173.3	568.9	41.8	(NA)	85.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	38.0	184.0	33.4	65.8	152.3	398.6	151.8	547.5	*33.8	(NA)	69.5	(NA)	(NA)
1958 Census.....	140	98	35.4	161.3	30.5	59.0	131.9	312.3	128.9	445.4	19.4	(NA)	62.9	98	97
INDUSTRY 3231.--PRODUCTS OF PURCHASED GLASS															
1972 Census.....	912	283	33.5	295.2	26.8	53.4	211.1	667.7	670.7	1,327.6	34.5	(NA)	209.7	² 90	(D)
1971 ASM.....	(NA)	(NA)	32.4	264.3	25.7	51.8	188.8	566.5	600.0	1,156.6	21.9	348.4	191.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	32.3	246.5	25.7	50.9	174.1	486.5	504.4	990.0	23.3	367.9	180.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	34.2	237.1	27.8	55.7	172.6	504.7	551.5	1,044.2	*39.5	291.6	171.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	31.2	213.0	25.4	51.4	158.0	466.7	487.7	951.1	*27.7	258.4	151.1	(NA)	(NA)
1967 Census.....	887	258	29.2	182.1	23.9	47.4	134.7	393.9	407.2	794.7	21.9	242.2	133.6	² 90	(D)
1966 ASM.....	(NA)	(NA)	29.6	179.9	24.4	48.9	131.7	376.1	392.3	754.1	42.8	(NA)	119.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	28.7	164.3	23.8	47.6	122.6	369.9	358.2	722.0	19.5	(NA)	105.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	26.6	150.0	22.0	44.3	111.5	323.3	335.1	644.1	40.8	225.6	101.5	(NA)	(NA)
1963 Census.....	1,044	249	26.2	138.3	21.7	43.4	103.9	309.7	320.3	627.3	13.2	188.1	88.9	² 90	(D)
1962 ASM.....	(NA)	(NA)	27.7	138.1	22.9	44.9	103.5	301.5	268.7	562.6	18.5	184.3	89.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	27.0	127.7	22.2	43.1	95.1	286.9	247.6	520.6	7.4	(NA)	87.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	28.0	131.8	23.2	44.8	100.7	314.4	260.3	557.8	*13.6	(NA)	80.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	28.6	135.3	24.4	46.8	105.3	311.1	293.2	581.1	*20.2	(NA)	75.6	(NA)	(NA)
1958 Census.....	1,031	239	24.0	109.6	19.7	38.1	83.1	242.7	226.0	468.8	16.5	(NA)	59.7	98	81

See footnotes on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3211	Industry 3221	Industry 3229	Industry 3231
1972.....	10	27	211	817
1967.....	(NA)	39	139	845
1963.....	11	40	75	1,016

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²This is a minimum percentage. The exact figure cannot be shown without disclosing figures of individual companies.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3211.--FLAT GLASS											
1972 Census, new SIC...	11,579	(NA)	81	2,185	5.23	.30	.56	(NA)	31,689	37	17.85
1971 ASM.....	10,535	40,640	83	2,108	4.85	.30	.56	1.01	28,170	37	16.17
1970 ASM.....	10,107	39,890	82	2,113	4.66	.32	.61	1.17	23,337	43	13.53
1969 ASM.....	9,527	33,330	83	2,108	4.39	.31	.60	1.03	22,951	42	13.18
1968 ASM.....	8,927	32,930	84	2,130	4.05	.30	.59	1.07	21,800	41	12.23
1967 Census.....	8,241	31,860	83	2,032	3.92	.32	.64	1.25	17,723	46	10.53
1966 ASM.....	8,280	(NA)	84	2,086	3.87	.32	.64	(NA)	17,339	48	9.85
1965 ASM.....	8,116	(NA)	85	2,112	3.77	.32	.62	(NA)	18,254	44	10.15
1964 ASM.....	7,929	25,930	85	2,176	3.59	.34	.66	1.02	16,969	47	9.19
1963 Census.....	7,548	24,840	85	2,042	3.62	.34	.65	1.03	15,975	47	9.18
1962 ASM.....	7,268	24,200	85	2,032	3.50	.36	.69	1.10	14,092	52	8.12
1961 ASM.....	6,911	(NA)	85	1,979	3.40	.37	.69	(NA)	13,450	51	8.02
1960 ASM.....	7,142	(NA)	85	2,073	3.38	.34	.66	(NA)	14,707	49	8.32
1959 ASM.....	6,621	(NA)	87	1,970	3.32	.31	.64	(NA)	14,682	45	8.53
1958 Census.....	6,306	(NA)	83	2,035	3.09	.30	.65	(NA)	12,425	51	7.34
INDUSTRY 3221.--GLASS CONTAINERS											
1972 Census, new SIC...	9,045	(NA)	88	1,986	4.33	.35	.66	(NA)	19,200	47	10.93
1971 ASM.....	8,424	15,890	89	1,967	4.07	.36	.67	.59	17,794	47	10.22
1970 ASM.....	7,787	14,310	89	1,977	3.59	.35	.66	.57	16,409	48	9.30
1969 ASM.....	7,256	13,550	89	1,959	3.53	.35	.66	.58	15,558	47	8.94
1968 ASM.....	6,814	13,350	88	1,950	3.34	.35	.66	.61	14,200	48	8.25
1967 Census.....	6,389	12,390	89	2,010	3.03	.36	.68	.61	12,628	51	7.05
1966 ASM.....	6,070	(NA)	89	2,003	2.89	.38	.71	(NA)	11,835	51	6.63
1965 ASM.....	5,823	(NA)	89	1,990	2.78	.38	.71	(NA)	11,042	53	6.23
1964 ASM.....	5,643	10,400	89	2,023	2.57	.39	.72	.60	10,702	53	5.94
1963 Census.....	5,467	9,570	89	2,002	2.60	.39	.72	.57	10,496	52	5.88
1962 ASM.....	5,443	8,870	89	2,004	2.58	.38	.71	.54	10,210	53	5.73
1961 ASM.....	5,228	(NA)	89	1,986	2.49	.38	.70	(NA)	9,995	52	5.64
1960 ASM.....	5,096	(NA)	89	2,005	2.41	.40	.72	(NA)	9,850	52	5.53
1959 ASM.....	4,835	(NA)	89	1,972	2.32	.39	.68	(NA)	9,980	48	5.28
1958 Census.....	4,731	(NA)	89	2,007	2.24	.39	.69	(NA)	9,692	49	5.45

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3229.--PRESSED AND BLOWN GLASS, N.E.C.											
1972 Census, new SIC...	8,673	(NA)	86	1,994	4.04	.27	.58	(NA)	20,509	42	11.98
1971 ASM.....	7,840	19,630	85	1,946	3.73	.28	.59	.78	18,320	43	11.14
1970 ASM.....	7,439	19,070	85	1,968	3.53	.29	.61	.82	16,841	44	10.07
1969 ASM.....	7,054	16,130	86	1,980	3.31	.27	.59	.73	16,304	43	9.55
1968 ASM.....	6,555	14,940	86	1,995	3.08	.27	.57	.68	16,100	41	9.34
1967 Census.....	6,178	14,550	86	1,979	2.93	.27	.56	.70	15,518	40	9.12
1966 ASM.....	6,165	(NA)	92	1,912	2.91	.25	.54	(NA)	16,392	38	9.29
1965 ASM.....	5,839	(NA)	87	1,982	2.78	.28	.57	(NA)	14,303	41	8.29
1964 ASM.....	5,639	10,570	85	2,013	2.67	.29	.58	.56	13,803	41	8.04
1963 Census.....	5,455	9,970	87	1,962	2.59	.27	.59	.60	12,427	44	7.28
1962 ASM.....	5,235	9,620	87	1,954	2.49	.28	.60	.59	11,749	45	6.92
1961 ASM.....	5,085	(NA)	86	1,937	2.45	.28	.61	(NA)	11,360	45	6.78
1960 ASM.....	4,904	(NA)	92	1,972	2.40	.30	.62	(NA)	11,027	44	6.05
1959 ASM.....	4,846	(NA)	88	1,971	2.31	.28	.61	(NA)	10,478	46	6.06
1958 Census.....	4,562	(NA)	86	1,935	2.24	.29	.65	(NA)	8,834	52	5.30
INDUSTRY 3231.--PRODUCTS OF PURCHASED GLASS											
1972 Census, new SIC...	8,812	(NA)	80	1,993	3.95	.50	.73	(NA)	19,931	44	12.50
1971 ASM.....	8,157	10,750	79	2,016	3.65	.52	.75	.30	17,485	47	10.94
1970 ASM.....	7,632	11,390	80	1,981	3.42	.51	.76	.37	15,062	51	9.56
1969 ASM.....	6,933	8,530	81	2,004	3.10	.53	.76	.28	14,757	47	9.06
1968 ASM.....	6,827	8,280	81	2,024	3.07	.51	.74	.27	14,958	46	9.08
1967 Census.....	6,234	8,290	82	1,985	2.84	.51	.74	.30	13,485	46	8.31
1966 ASM.....	6,082	(NA)	82	2,005	2.69	.52	.76	(NA)	12,714	48	7.69
1965 ASM.....	5,723	(NA)	83	1,998	2.58	.50	.72	(NA)	12,884	44	7.78
1964 ASM.....	5,646	8,480	83	2,016	2.52	.52	.75	.35	12,167	46	7.30
1963 Census.....	5,286	7,180	83	2,002	2.39	.51	.73	.30	11,841	45	7.14
1962 ASM.....	4,985	6,650	83	1,962	2.30	.48	.72	.33	10,880	46	6.71
1961 ASM.....	4,735	(NA)	82	1,943	2.21	.48	.72	(NA)	10,639	45	6.66
1960 ASM.....	4,715	(NA)	83	1,930	2.25	.47	.70	(NA)	11,241	42	7.02
1959 ASM.....	4,728	(NA)	85	1,918	2.25	.50	.74	(NA)	10,868	43	6.64
1958 Census.....	4,561	(NA)	82	1,932	2.18	.48	.72	(NA)	10,101	45	6.36

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3211-- FLAT GLASS													
UNITED STATES.	31	30	20.9	242.0	17.0	37.1	194.2	662.3	281.0	937.2	95.0	23.9	422.9
NORTHEAST REGION	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION	11	10	8.0	100.8	6.8	14.8	83.7	278.8	111.2	390.6	31.2	8.5	176.9
EAST NORTH CENTRAL DIVISION.	9	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ILLINOIS	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION	13	13	9.1	103.4	7.6	16.7	83.0	246.7	131.3	371.5	(D)	9.6	161.2
SOUTH ATLANTIC DIVISION.	6	6	3.7	39.9	3.0	6.1	32.4	78.3	30.4	107.2	(D)	3.8	57.4
MARYLAND	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA.	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION.	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TENNESSEE.	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ARKANSAS	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
OKLAHOMA	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PACIFIC DIVISION	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3221-- GLASS CONTAINERS													
UNITED STATES.	117	115	72.9	659.4	64.5	128.1	554.8	1 399.7	746.9	2 126.5	121.1	66.7	842.2
NORTHEAST REGION	32	32	24.4	212.6	21.6	42.9	178.3	442.4	250.7	686.1	42.6	FF	(D)
NEW ENGLAND DIVISION	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
RHODE ISLAND	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CONNECTICUT.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION	30	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.2	265.4
NEW YORK	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA	14	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION	27	27	19.9	178.1	17.7	35.0	151.0	363.8	201.0	560.3	23.6	19.5	231.3
EAST NORTH CENTRAL DIVISION.	25	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDIANA.	9	9	6.6	57.7	5.9	11.6	49.2	118.7	69.1	187.1	7.8	FF	(D)
ILLINOIS	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.0	121.4
MICHIGAN	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WISCONSIN.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST NORTH CENTRAL DIVISION.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MINNESOTA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	38	36	18.3	166.4	16.1	32.5	138.5	355.9	188.8	537.2	27.5	16.5	215.4
SOUTH ATLANTIC DIVISION.	19	17	10.8	100.5	9.5	19.1	83.9	204.1	111.3	310.4	15.2	10.2	138.6
MARYLAND	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA.	6	6	4.2	39.4	3.7	7.2	33.1	70.0	38.5	105.9	6.9	4.0	51.0
NORTH CAROLINA	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH CAROLINA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
GEORGIA.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA.	4	4	1.7	14.7	1.5	3.0	12.4	33.4	20.5	54.0	1.9	EE	(D)
EAST SOUTH CENTRAL DIVISION.	5	5	2.1	18.6	1.8	3.9	15.3	40.8	22.5	63.1	3.3	1.7	18.4
TENNESSEE.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSISSIPPI.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION.	14	14	5.4	47.3	4.8	9.4	39.2	111.0	55.0	163.6	9.0	4.6	58.4
ARKANSAS	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
OKLAHOMA	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TEXAS.	5	5	2.2	20.0	1.9	3.8	16.5	48.5	23.9	72.0	(D)	2.0	29.3
WEST REGION.	20	20	10.3	102.2	9.1	17.7	87.0	237.5	106.4	342.9	27.4	FF	(D)
PACIFIC DIVISION	19	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
OREGON	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA	17	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3229-- PRESSED AND BLOWN GLASS, NEC													
UNITED STATES.	252	110	45.9	398.1	39.3	78.6	317.7	941.4	337.2	1 267.3	55.7	42.5	658.9
NORTHEAST REGION	73	31	13.1	119.3	11.1	22.9	94.2	285.2	94.5	378.5	11.4	FF	(D)
NEW ENGLAND DIVISION	11	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
RHODE ISLAND	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3229-- PRESSED AND BLOWN GLASS, NEC-- CONTINUED													
NORTHEAST REGION--CONTINUED													
MIDDLE ATLANTIC DIVISION	62	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.6	202.8
NEW YORK	21	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY	15	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA	26	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION	68	29	15.5	140.3	13.1	25.6	111.9	318.0	111.5	421.5	16.3	14.9	244.8
EAST NORTH CENTRAL DIVISION.	60	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO	27	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA	10	6	2.3	18.8	2.0	3.8	15.6	56.6	14.9	71.6	3.3	FF	(D)
MICHIGAN	8	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION	83	46	16.7	133.4	14.5	29.0	107.2	324.5	126.5	449.6	26.5	14.3	186.0
SOUTH ATLANTIC DIVISION.	52	34	12.5	98.4	10.9	21.7	80.2	230.5	91.8	323.1	19.5	11.6	145.8
VIRGINIA	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST VIRGINIA	29	26	6.7	50.0	5.9	11.4	40.2	113.4	38.5	151.6	6.3	6.9	85.3
NORTH CAROLINA	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION.	10	7	2.8	25.2	2.4	4.9	18.8	67.1	27.3	93.7	6.1	1.7	25.2
KENTUCKY	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION.	21	5	1.4	9.9	1.2	2.4	8.3	26.9	7.5	32.9	2.0	.9	15.0
ARKANSAS	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION. E1	28	4	.6	5.4	.6	1.1	4.4	13.6	4.7	17.7	1.5	BB	(D)
PACIFIC DIVISION E1	23	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA E1	21	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3231-- PRODUCTS OF PURCHASED GLASS													
UNITED STATES.	912	283	33.5	295.2	26.8	53.4	211.1	667.7	670.7	1 327.6	34.5	29.2	393.9
NORTHEAST REGION	370	112	13.3	116.1	10.6	21.1	82.0	242.0	235.2	473.2	13.0	12.2	136.9
NEW ENGLAND DIVISION	47	13	1.3	10.2	1.1	2.1	6.7	24.6	18.1	40.7	.7	1.3	13.3
MASSACHUSETTS.	21	3	.4	3.8	.3	.6	2.1	11.4	9.2	19.3	.5	AA	(D)
CONNECTICUT. E1	15	6	.7	5.1	.6	1.2	3.7	10.5	6.4	16.2	.1	.8	8.4
MIDDLE ATLANTIC DIVISION	323	99	12.0	105.9	9.5	19.0	75.3	217.4	217.1	432.5	12.4	10.9	123.6
NEW YORK E1	158	36	3.8	30.5	3.1	6.2	21.3	63.9	43.7	106.8	1.3	3.7	42.0
NEW JERSEY E1	93	32	2.8	24.8	2.1	4.2	16.2	47.4	41.1	89.0	2.2	3.1	32.2
PENNSYLVANIA	72	31	5.4	50.5	4.3	8.5	37.9	106.0	132.3	236.8	8.9	4.2	49.4
NORTH CENTRAL REGION	229	79	12.0	118.9	9.6	19.3	89.5	284.7	281.6	562.6	12.9	10.7	179.6
EAST NORTH CENTRAL DIVISION.	197	72	11.3	112.9	9.1	18.2	85.8	267.3	264.9	528.9	12.0	10.0	170.6
OHIO	64	28	4.2	39.9	3.5	6.8	31.9	99.1	113.1	210.3	5.5	3.8	63.6
INDIANA	15	6	.9	7.0	.7	1.4	5.0	13.6	12.5	25.5	.4	.8	7.1
ILLINOIS E1	54	17	2.7	30.5	2.2	4.7	24.5	62.9	63.2	126.6	1.9	2.8	46.2
MICHIGAN	45	16	3.2	33.1	2.4	4.8	23.1	85.8	70.7	155.4	3.5	2.4	51.9
WISCONSIN. E1	19	5	.3	2.4	.2	.5	1.4	5.9	5.5	11.1	.7	.2	1.8
WEST NORTH CENTRAL DIVISION.	32	7	.6	6.0	.5	1.1	3.6	17.4	16.7	33.7	1.0	.7	9.0
MINNESOTA. E3	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSOURI	11	3	.2	1.5	.1	.3	.9	3.5	2.6	6.1	(D)	BB	(D)
KANSAS	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	161	58	5.9	40.8	4.7	9.4	27.2	100.3	111.6	208.4	7.1	4.5	56.0
SOUTH ATLANTIC DIVISION.	104	40	4.0	26.4	3.3	6.5	17.7	65.6	81.6	144.6	5.6	3.1	40.9
VIRGINIA	8	8	.9	6.6	.8	1.4	4.0	16.3	22.2	37.5	1.0	.8	14.4
WEST VIRGINIA.	20	5	.8	5.0	.7	1.3	4.1	11.3	8.8	20.1	.2	.5	6.5
NORTH CAROLINA	18	9	1.3	9.0	1.1	2.3	5.4	24.4	32.2	55.7	3.2	1.0	9.9
GEORGIA.	9	5	.3	1.6	.2	.4	1.1	3.9	5.9	9.5	.8	(NA)	(NA)
FLORIDA. E1	38	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.0
EAST SOUTH CENTRAL DIVISION.	16	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	10.5
TENNESSEE.	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. E1	41	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.6
TEXAS.	23	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.5
WEST REGION. E2	152	34	2.3	19.4	1.8	3.4	12.5	40.8	42.5	83.5	1.2	1.8	21.3
MOUNTAIN DIVISION. E1	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E2	136	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	20.3
CALIFORNIA E2	113	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	19.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those states where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

(See appendix, Explanation of terms)

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)												
Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)	
		Number	Payroll	Number	Man-hours	Wages						
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)						
3211-- FLAT GLASS												
ESTABLISHMENTS, TOTAL.	31	20.9	242.0	17.0	37.1	194.2	662.3	281.0	937.2	95.0	100.7	
ESTABLISHMENTS WITH AN AVERAGE OF-												
10 TO 19 EMPLOYEES	1	2.3	2.0	2.2	1.1	1.5	4.8	2.3	6.6	(Z)	1.1	
20 TO 49 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
50 TO 99 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
100 TO 249 EMPLOYEES	2	3.4	31.7	2.8	5.6	24.9	105.8	34.4	138.8	10.0	15.1	
250 TO 499 EMPLOYEES	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
500 TO 999 EMPLOYEES	10	7.6	77.0	6.0	12.4	62.8	201.9	75.5	274.2	49.2	30.1	
1,000 TO 2,499 EMPLOYEES	4	9.6	131.2	8.1	17.8	104.9	349.9	168.9	517.4	35.8	54.4	
2,500 EMPLOYEES OR MORE.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3221-- GLASS CONTAINERS												
ESTABLISHMENTS, TOTAL.	117	72.9	659.4	64.5	128.1	554.8	1 399.7	746.9	2 126.5	121.1	271.9	
ESTABLISHMENTS WITH AN AVERAGE OF-												
1 TO 4 EMPLOYEES	1	1.6	13.3	1.3	2.7	10.6	31.8	17.6	48.4	7.1	5.9	
5 TO 9 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
10 TO 19 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
20 TO 49 EMPLOYEES	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
50 TO 99 EMPLOYEES	49	17.6	156.4	15.6	31.5	131.6	351.0	202.0	550.8	28.5	69.7	
100 TO 249 EMPLOYEES	41	28.6	263.9	25.4	50.6	221.0	602.4	319.9	915.8	59.2	113.2	
250 TO 499 EMPLOYEES	13	25.1	225.9	22.2	43.3	191.8	414.4	207.5	611.6	26.3	83.0	
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
2,500 EMPLOYEES OR MORE.												
3229-- PRESSED AND BLOWN GLASS, NEC												
ESTABLISHMENTS, TOTAL.	252	45.9	398.1	39.3	78.6	317.7	941.4	337.2	1 267.3	55.7	187.9	
ESTABLISHMENTS WITH AN AVERAGE OF-												
1 TO 4 EMPLOYEES	E9	102	.2	1.3	.2	.3	1.0	3.0	1.3	4.4	.5	.7
5 TO 9 EMPLOYEES	E8	25	.2	1.3	.2	.3	1.1	2.7	.9	3.6	.3	.5
10 TO 19 EMPLOYEES	E6	15	.2	1.6	.2	.3	1.2	2.8	1.1	3.8	.2	.5
20 TO 49 EMPLOYEES	E2	13	.4	2.5	.3	.6	1.9	5.0	2.8	7.9	.6	1.4
50 TO 99 EMPLOYEES		16	1.1	8.0	.8	1.6	5.6	14.1	6.6	23.0	.9	1.7
100 TO 249 EMPLOYEES		31	5.1	39.5	4.4	8.3	31.3	77.9	27.2	105.0	2.8	9.7
250 TO 499 EMPLOYEES		17	6.5	59.1	5.4	11.4	45.4	151.1	47.6	191.8	6.7	35.2
500 TO 999 EMPLOYEES		23	16.4	144.2	14.3	29.7	116.7	392.9	127.6	516.3	23.4	62.5
1,000 TO 2,499 EMPLOYEES		9	15.9	140.6	13.5	26.0	113.4	291.9	122.2	411.4	20.4	75.7
2,500 EMPLOYEES OR MORE.		1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹		105	.3	2.2	.3	.5	1.7	4.8	2.0	6.8	.4	1.1
3231-- PRODUCTS OF PURCHASED GLASS												
ESTABLISHMENTS, TOTAL.	912	33.5	295.2	26.8	53.4	211.1	667.7	670.7	1 327.6	34.5	209.7	
ESTABLISHMENTS WITH AN AVERAGE OF-												
1 TO 4 EMPLOYEES	E8	377	.7	5.2	.7	1.0	3.8	10.3	10.0	20.7	.9	3.6
5 TO 9 EMPLOYEES	E6	142	.9	7.8	.7	1.4	5.3	16.1	14.1	30.1	.8	4.5
10 TO 19 EMPLOYEES	E2	110	1.5	12.5	1.2	2.3	8.6	27.1	22.3	49.1	1.2	6.9
20 TO 49 EMPLOYEES	E1	150	4.8	35.4	3.8	7.2	24.0	75.8	76.4	149.7	5.4	19.8
50 TO 99 EMPLOYEES		57	4.0	31.6	3.2	6.7	21.9	66.8	62.8	128.4	5.6	18.7
100 TO 249 EMPLOYEES		50	7.7	58.9	6.1	12.2	38.8	126.8	133.5	257.4	10.6	42.6
250 TO 499 EMPLOYEES		17	6.0	54.8	4.9	9.4	39.1	123.4	128.8	249.5	3.4	43.5
500 TO 999 EMPLOYEES		7	7.8	89.1	6.2	13.1	69.6	221.5	222.7	442.8	6.8	70.0
1,000 TO 2,499 EMPLOYEES		2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹		355	.9	7.4	.8	1.5	5.3	14.7	16.4	31.1	.7	5.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E10--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3211	FLAT GLASS										
	ENTIRE INDUSTRY	31	20.9	242.0	17.0	37.1	194.2	662.3	281.0	937.2	95.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	27	16.1	178.5	13.1	28.4	145.0	471.0	166.1	634.0	79.9
32111	SHEET (WINDOW) GLASS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	11	6.1	65.8	5.0	10.3	53.0	135.1	45.8	179.5	6.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32112	PLATE AND FLOAT GLASS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	10	8.8	97.5	6.9	14.6	76.7	325.3	144.2	464.0	63.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32113	LAMINATED GLASS, FROM GLASS PRODUCED IN ESTAB. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32114	OTHER FLAT GLASS, FROM GLASS PRODUCED IN ESTAB. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3221	GLASS CONTAINERS										
	ENTIRE INDUSTRY	117	72.9	659.4	64.5	128.1	554.8	1 399.7	746.9	2 126.5	121.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	115	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3229	PRESSED AND BLOWN GLASS, NEC										
	ENTIRE INDUSTRY	252	45.9	398.1	39.3	78.6	317.7	941.4	337.2	1 267.3	55.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	249	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32291	TABLE, KITCHEN, ART, AND NOVELTY GLASSWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	41	22.1	190.6	18.8	37.1	153.0	437.1	148.5	571.0	23.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	32	15.9	131.9	13.5	26.1	106.0	288.0	101.1	380.3	15.7
32292	LIGHTING AND ELECTRONIC GLASSWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	44	12.6	112.8	10.8	22.0	89.4	288.3	88.5	375.0	11.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	40	10.6	96.5	9.1	18.5	76.0	258.6	80.0	336.9	10.2
32293	GLASS FIBER (TEXTILE TYPE FIBER) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	12	8.5	72.4	7.4	15.2	59.4	162.9	84.6	250.3	16.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32294	OTHER PRESSED AND BLOWN GLASSWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	15	4.5	41.1	3.7	7.2	30.9	94.4	30.1	124.6	5.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	11	3.7	33.4	3.1	5.8	25.2	73.9	24.0	98.1	4.7
3231	PRODUCTS OF PURCHASED GLASS										
	ENTIRE INDUSTRY	912	33.5	295.2	26.8	53.4	211.1	667.7	670.7	1 327.6	34.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	885	31.0	276.5	25.0	49.8	199.2	624.3	640.9	1 254.6	33.0
32313	LAMINATED GLASS, MADE OF PURCHASED GLASS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	18	7.2	84.5	5.6	11.6	65.0	212.8	234.4	448.9	5.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32315	MIRRORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	68	6.1	47.5	4.8	9.7	30.1	104.6	112.8	214.3	4.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	55	4.9	38.2	3.8	7.7	23.7	83.3	96.3	176.7	3.8
32316	OTHER GLASS PRODUCTS, MADE OF PURCHASED GLASS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	265	16.4	136.3	13.2	26.8	97.4	289.7	276.9	557.9	20.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	238	13.6	115.4	11.1	22.7	84.0	247.2	242.3	480.7	19.4

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3211-	Flat glass.....1972..	937.2	(D)	(D)	17.5	¹ 85	1,247.1	(D)	(D)	(D)
	.....1967..	611.3	(D)	(D)	10.3	¹ 85	² 810.9	(D)	(D)	(D)
3221-	Glass containers.....1972..	2,126.5	2,079.9	22.7	23.9	99	2,085.2	2,079.9	5.3	99
	.....1967..	1,352.4	1,327.0	6.1	19.3	99	1,331.0	1,327.0	4.0	99
3229-	Pressed and blown glass, n.e.c.....1972..	1,267.3	1,214.7	44.1	8.5	96	1,262.5	1,214.7	47.8	96
	.....1967..	886.2	859.1	24.2	2.9	97	880.4	859.1	21.3	98
3231-	Products of purchased glass.....1972..	1,327.6	(D)	(D)	95.8	¹ 90	² 1,511.5	(D)	(D)	(D)
	.....1967..	794.7	(D)	(D)	55.2	¹ 90	² 929.2	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

¹This is a minimum percentage. The exact percentage cannot be shown without disclosing figures for individual companies.

²This includes laminated glass (product classes 32113 and 32313) which is primary to industry 3211 when made by primary glass producers, and industry 3231 when made from purchased glass. Separate totals have been withheld to avoid disclosing figures for individual companies.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 5A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Flat glass (SIC 3211)	Glass containers (SIC 3221)	Pressed and blown glass, n.e.c. (SIC 3229)	Products of purchased glass (SIC 3231)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	937.2	2,126.5	1,267.3	1,327.6	(X)
3211-	Flat glass.....	¹ 1,247.1	(D)	-	(D)	(D)	(D)
32111	Sheet (window) glass.....	157.3	156.9	-	(under 2)	-	(under 2)
32112	Plate and float glass.....	361.8	360.8	-	-	(under 2)	(under 2)
32113	Laminated glass, made from glass produced in the same establishment.....	¹ 534.4	(D)	-	-	(D)	-
32114	Other flat glass, made from glass produced in the same establishment.....	193.6	188.5	-	(2-5)	(under 2)	(under 2)
32110	Flat glass, n.s.k.....	-	-	-	-	-	-
3221-	Glass containers.....	2,085.2	-	2,079.9	(over 2)	-	(under 2)
3229-	Pressed and blown glass, n.e.c.....	1,262.5	-	17.2	1,214.7	2.9	27.7
32291	Table, kitchen, and novelty glassware (handmade and machine-made).....	432.9	-	(over 2)	429.8	-	(under 2)
32292	Lighting and electronic glassware.....	394.6	-	-	385.9	-	(over 2)
32293	Glass fiber-textile type fiber.....	253.5	-	-	(200-500)	-	(10-20)
32294	Other pressed and blown glassware.....	166.6	-	(10-20)	145.9	(over 2)	(over 2)
32290	Pressed and blown glass, n.e.c., n.s.k.....	14.8	-	-	(10-20)	-	(under 2)
3231-	Products of purchased glass.....	¹ 1,511.5	(D)	-	-	(D)	97.1
32313	Laminated glass, made of purchased glass.....	¹ 534.4	(D)	-	-	(D)	(under 2)
32315	Mirrors.....	254.5	-	-	-	197.3	57.1
32316	Other glass products, made of purchased glass.....	625.8	(50-100)	-	-	537.6	(20-50)
32310	Products of purchased glass n.s.k.....	96.8	-	-	-	(50-100)	(under 2)
	Other product shipments by 4-digit product group:						
2653	Corrugated and solid fiber boxes.....	(X)	-	(over 2)	-	-	(X)
2752	Commercial printing, lithographic.....	(X)	-	-	-	(under 2)	(X)
2821	Plastics materials and resins.....	(X)	-	-	(over 2)	-	(X)
3079	Miscellaneous plastics products.....	(X)	-	-	(over 2)	(over 2)	(X)
3264	Porcelain electrical supplies.....	(X)	-	-	-	(under 2)	(X)
3296	Mineral wool.....	(X)	-	-	2.1	-	(X)
3299	Nonmetallic mineral products, n.e.c.....	(X)	-	-	.9	-	(X)
3429	Hardware, n.e.c.....	(X)	-	-	-	(over 2)	(X)
3442	Metal doors, sash, and trim.....	(X)	-	-	-	1.2	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts				All industries	Flat glass (SIC 3211)	Glass containers (SIC 3221)	Pressed and blown glass, n.e.c. (SIC 3229)	Products of purchased glass (SIC 3231)	Other industries
	Shipments and miscellaneous receipts--Continued									
	Other product shipments by 4-digit product group:									
3599	Machinery, except electrical, n.e.c.....				(X)	-	-	-	(under 2)	(X)
3631	Household cooking equipment.....				(X)	-	-	(10-20)	-	(X)
3647	Vehicular lighting equipment.....				(X)	-	-	-	(over 2)	(X)
3714	Motor vehicle parts and accessories.....				(X)	-	-	-	(over 2)	(X)
3811	Engineering and scientific instruments.....				(X)	-	-	-	(over 2)	(X)
3841	Surgical and medical instruments.....				(X)	-	-	-	(under 2)	(X)
3842	Surgical appliances and supplies.....				(X)	-	-	-	(under 2)	(X)
3944	Games, toys, and children's vehicles.....				(X)	-	-	(under 2)	-	(X)
	Miscellaneous receipts.....				(X)	17.5	23.9	8.5	95.8	(X)
93000	Contract work.....				(X)	-	-	-	8.0	(X)
99989	Resales.....				(X)	17.0	16.6	7.8	85.9	(X)
99980	Other miscellaneous receipts.....				(X)	.5	7.3	.7	1.9	(X)

Product code	Industry, class of products, and miscellaneous receipts		Other industries	Product code	Industry, class of products, and miscellaneous receipts		Other industries
	Listing of the other industries with over \$2 million shipments of the primary products				Listing of the other industries with over \$2 million shipments of the primary product--Continued		
3229-	3296 Mineral wool.....	(5-10)	3231-	2844 Toilet preparations.....			(over 2)
	3564 Blowers and fans.....	(5-10)		3079 Miscellaneous plastics products.....			2.6
	3646 Commercial lighting fixtures.....	(over 2)		3499 Fabricated metal products, n.e.c.....			7.5
3231-	2499 Wood products n.e.c.....	3.8		3647 Vehicular lighting equipment.....			(10-20)
	2511 Wood household furniture.....	32.8		3714 Motor vehicle parts and accessories.....			(2-5)
	2514 Metal household furniture.....	(2-5)		3823 Process control instruments.....			(2-5)
	2831 Biological products.....	(2-5)		3999 Manufacturing industries, n.e.c.....			5.7

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

¹Includes laminated glass (product classes 32113 and 32313) which is primary to industry 3211 when made by primary glass producers, and industry 3231 when made from purchased glass. Separate totals withheld to avoid disclosing figures of individual companies.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3211	FLAT GLASS, TOTAL ¹		(X)	(X)	1,247.1	(X)	(X)	810.9
32111 --	Sheet (Window) Glass:							
	As reported in census of manufactures.....		(X)	(X)	157.3	(X)	(X)	133.2
	As reported on Census Quarterly Report Form MQ-32A.....	Mil.boxes 50 sq.ft. ea.single strength or equiv.	² 25.3	23.9	² 157.2	21.9	21.3	131.6
	Uncolored:							
32111 22	Single strength.....	...do....	14.3	14.3	90.3	9.8	9.8	56.7
32111 23	Double strength, including greenhouse.....	...do....	6.4	5.8	39.5	4.3	4.1	26.8
32111 24	Heavy sheet.....	...do....	4.0	3.3	22.4	6.3	6.0	37.0
32111 26	Thin sheet, including picture glass and tinted or colored glass (all thicknesses).....	...do....	.5	.5	5.1	1.5	1.3	11.0
32112 00	Plate and float glass.....		(X)	(X)	361.8	(X)	(X)	183.3

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars) ^a
3211- --	Flat Glass--Continued							
32114 --	Other Flat Glass, Made From Glass Produced in Same Establishment.		(X)	(X)	193.6	(X)	(X)	130.2
32114 11	Rolled and wire glass ³		(X)	(X)	(D)	(X)	(X)	22.0
32114 21	Tempered glass for automotive use							
32114 23	Tempered glass for architectural and construction purposes including glass for shower doors and entrance doors		(X)	208.3	163.0	(X)	166.9	⁴ 102.6
32114 29	Tempered glass for other uses, such as for appliances							
32114 98	Other flat glass (plate glass blanks, bent or enameled sheet, plate, float, and rolled glass; glass doors and tub enclosures (other than tempered); multiple-glazed, sealed insulating units; etc.)		(X)	(X)	(D)	(X)	19.1	5.6
	Plate and float glass and rolled and wire glass as reported on Census Quarterly Report Form MQ-32A	...do....	² 1,522.5	1,191.2	393.1	830.7	547.2	200.5
32112 13	Plate and float glass not over 1/8 inch thickness	...do....	546.9	445.5	128.0	381.3	282.5	89.8
32112 15	Plate and float glass, over 1/8 inch, but not over 1/4 inch thickness	...do....	876.6	659.6	224.7	378.9	210.4	85.6
32112 17	Plate and float glass, over 1/4 inch thickness, and rolled							
32114 11	and wire glass	...do....	98.9	86.1	40.4	70.5	54.2	25.1
32113 --	Laminated glass ⁵		(X)	(NA)	534.4	(X)	210.6	361.7
32313 --								
32113 11	Laminated plate 1/4 inch and under		(X)	306.7	515.4	(X)	190.0	342.0
32113 31	Laminated plate over 1/4 inch							
32113 51	Laminated sheet (window) glass		(X)	15.2	19.0	(X)	20.5	19.7
32113 71	Other laminated glass							
32110 00	Flat glass, n.s.k., for companies with 10 employees or more. (See note.)		(X)	(X)	-	(X)	(X)	2.4
32110 02	Flat glass, n.s.k., for companies with less than 10 employees. (See note.)		(X)	(X)	-	(X)	(X)	.2
3221- --	GLASS CONTAINERS:							
	As reported in the census of manufactures		(X)	(X)	2,085.2	(X)	(X)	1,331.0
	As reported on the annual supplement to the monthly report form M32G		(X)	(X)	2,055.6	(X)	(X)	(NA)
32210 --	Glass Containers:							
	Machine-made for domestic shipments:							
	Narrow neck:							
32210 11	Food	Mil.gross.		25.0	236.5		24.9	182.5
32210 13	Medicinal and health supplies	...do....	53.9	16.9	123.3	55.5	18.0	86.2
32210 15	Chemical, household, and industrial	...do....		3.5	24.4		5.4	29.3
32210 17	Toiletries and cosmetics	...do....		7.5	53.9		11.6	64.2
32210 19	Beverage, returnable	...do....	10.9	10.2	137.1	13.0	13.3	121.5
32210 21	Beverage, nonreturnable	...do....	61.8	61.1	465.8	25.9	24.8	128.7
32210 23	Beer, returnable	...do....	2.9	2.8	17.6	4.6	4.3	22.5
32210 25	Beer, nonreturnable	...do....	52.6	52.7	264.7	40.1	39.9	166.5
32210 27	Liquor	...do....	14.7	13.9	160.8	14.6	14.2	120.0
32210 29	Wine	...do....	8.5	8.5	120.1	6.0	6.2	56.5
	Wide mouth:							
32210 31	Food, including packers' tumblers, fruit jars, and jelly glasses	...do....		56.8	400.3		58.0	276.9
32210 32	Medicinal and health supplies	...do....	66.1	4.7	29.2	63.9	6.3	25.5
32210 33	Chemical, household, and industrial	...do....		1.6	11.7		1.2	7.4
32210 34	Toiletries and cosmetics	...do....		2.0	16.6		2.6	13.2
32210 37	Dairy products	...do....	.3	.3	5.3	1.0	1.0	15.4
32210 54	Handmade, all types, domestic and export	...do....	(X)	(D)	(D)	(X)	(X)	(Z)
32210 62	Export shipments (all types of machine-made glass containers)	...do....	(X)	1.8	15.6	(X)	1.9	12.4
32210 71	Net weight of machine-made glass containers packed	Mil. lb...	(X)	25,850.9	(X)	(X)	17,731.8	(X)
32210 00	Glass containers, n.s.k., for companies with 10 employees or more. (See note.)		(X)	(X)	(D)	(X)	(X)	2.2
32210 02	Glass containers, n.s.k., for companies with less than 10 employees. (See note.)		(X)	(X)	.1	(X)	(X)	.1

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3229- --	PRESSED AND BLOWN GLASS, N.E.C., TOTAL: As reported in census of manufactures.....		(X)	1,262.5	(X)	880.4
	As reported on Census Annual forms MA-32E and MA-32J.....		(X)	1,295.3	(X)	885.8
32291 --	Table, Kitchen, Art, and Novelty Glassware: As reported in census of manufactures.....		(X)	432.9	(X)	266.9
	As reported on Census Annual Form MA-32E ⁶		(X)	450.6	(X)	272.3
	Machine-made:					
32291 21	Tumblers (one-piece, excluding packers' tumblers).....	Mil. dozens...	81.1	119.3	66.4	69.4
32291 22	Stemware.....	...do.....	(D)	(D)	8.0	19.8
32291 23	Tableware.....	Mil. piece....	425.1	172.6	334.1	107.1
32291 25	Cookware, ovenware, and kitchenware.....	...do.....				
32291 28	Ornamental, decorative, and novelty glassware and smokers' accessories.....		(X)	41.6	(X)	25.7
	Hand-made:					
32291 31	Tumblers.....	Mil. dozens...	(D)	(D)	(D)	(D)
32291 32	Stemware.....	...do.....	2.0	17.7	(D)	(D)
32291 33	Tableware.....	...do.....	(D)	(D)	(D)	(D)
32291 38	Other, including ornamental, decorative, and novelty glassware, and smokers' accessories.....					
32291 99	Interplant transfers and shipments to other glassware establishments of partially fabricated table, kitchen, art, and novelty glassware.....		(X)	(D)	(X)	(D)
32292 --	Lighting and Electronic Glassware: As reported in census of manufactures.....		(X)	394.6	(X)	328.9
	As reported on Census Annual form MA-32E ⁷		(X)	377.1	(X)	338.8
32292 21	Automotive lighting glassware.....		(X)	(D)	(X)	17.1
32292 23	Searchlight and other lenses.....		(X)	(D)	(X)	4.1
32292 31	Electronic-tube blanks.....		(D)	(D)	(D)	(D)
32292 27	Tubing and cane for electric light bulbs and fluorescent and neon lighting.....		(X)	40.1	(X)	31.7
32292 25	Electric light bulb blanks.....		(X)	(D)	(X)	(D)
32292 35	Television tube blanks and parts and tubing, cane, and other glass parts for electronic tubes and devices.....					
	Bowls and enclosing globes, lamp chimneys, lamp parts, shades, reflectors, torchiers, and other interior and exterior lighting:					
32292 37	Interior.....		(X)	45.5	(X)	24.7
32292 39	Exterior.....		(X)	6.3	(X)	8.2
32292 99	Interplant transfers and shipments to other glassware establishments of partially fabricated lighting and electronic glassware.....		(X)	(D)	(X)	(D)
		Unit of measure	1972		1967	
			Production for all purposes	Total product shipments including interplant transfers	Production for all purposes	Total product shipments including interplant transfers
				Quantity Value (million dollars)		Quantity Value (million dollars)
32293 --	Glass Fiber--Textile Type Fiber: As reported in census of manufactures.....		(X)	(X)	(X)	(X)
	As reported on Census Annual form MA-32J.....	Million lb.	576.9	575.5	308.4	308.6
32293 23	Roving chopped strand and milled fiber.....	...do.....	576.9	575.5	122.0	118.7
32293 21	Yarn, strand, staple yarn, and silver.....	...do.....				
32293 25	Mat.....	...do.....				
32293 29	Other textile type fiber.....	...do.....				
32294 --	All Other Pressed and Blown Glassware: As reported in census of manufactures.....		(X)	(X)	(X)	(X)
	As reported on Census Annual form MA-32E ^{1 2}		(X)	(X)	(X)	(X)
32294 21	Tubing, rod, and canes, all types, except electrical and electronic.....		(X)	(X)	(X)	(D)
32294 23	Scientific and laboratory glassware.....		(X)	(X)	(X)	(D)
32294 25	Industrial and technical glassware.....		(X)	(X)	(X)	33.2
32294 27	Ophthalmic lens blanks and optical instrument lens blanks.....		(X)	(X)	(X)	(D)
32294 29	Other glassware.....					
32294 99	Interplant transfers and shipments to other glassware establishments of partially fabricated glassware (except table, kitchen, art, novelty, lighting, or electronic).....		(X)	(X)	(X)	(D)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972		1967	
			Production for all purposes	Total product shipments including interplant transfers	Production for all purposes	Total product shipments including interplant transfers
				Quantity Value (million dollars)		Quantity Value (million dollars)
3229- --	PRESSED AND BLOWN GLASS, N.E.C.--Continued					
32290 00	Pressed and blown glass, n.e.c., for companies with 10 employees or more. (See note.)		(X)	(X) 8.0	(X)	(X) 7.1
32290 02	Pressed and blown glass, n.e.c., for companies with less than 10 employees. (See note.)		(X)	(X) 6.8	(X)	(X) 1.9
		Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3231- --	PRODUCTS OF PURCHASED GLASS, TOTAL ⁸		(X)	977.1	(X)	567.4
32315 --	Mirrors		(X)	254.5	(X)	160.0
	Mirrors, framed (decorated and undecorated):					
32315 11	Plate and float glass	Million sq.ft.	(S)	65.3	16.0	31.4
32315 51	Other glass	do.		17.8	(S)	23.9
	Unframed mirrors (decorated and undecorated):					
32315 61	Plate and float glass	do.		66.1	52.5	38.0
32315 63	Other glass	do.		72.6	33.9	14.7
32315 71	Automotive rearview mirrors		(X)	66.0	(X)	41.7
32315 00	Mirrors, n.s.k.		(X)	12.8	(X)	10.3
32316 --	Other Glass Products, Made of Purchased Glass		(X)	625.8	(X)	352.1
32316 21	Stained, leaded, and faceted glass and colored glass slabs	Million sq.ft.	(S)	4.8	(S)	6.2
32316 33	Table, kitchen, art, and novelty glassware (handmade and machine made)	do.	(X)	39.7	(S)	28.7
32316 37	Lighting and electronic glassware, such as tubing and cane for electric light bulbs and fluorescent and neon lighting; bowls and enclosing globes; and other interior and exterior lighting glassware		(X)	21.7		
32316 38	All other glassware (excluding flat glass products), including scientific, laboratory, industrial or technical glassware; glass blocks and Christmas tree ornaments, etc.		(X)	135.0	(X)	119.3
32316 71	Multiple-glazed, sealed insulating glass units		(X)	78.5	(X)	37.6
32316 81	Tempered glass for automotive use	Million sq.ft.	240.9	153.6	86.3	59.1
32316 83	Tempered glass for architectural and construction purposes, including glass for shower doors and entrance doors	do.	(S)	(S)	(S)	18.8
32316 89	Tempered glass for other uses, such as for appliances	do.	(S)	(S)	52.1	24.6
32316 98	Other flat glass products (excluding laminated glass, tempered glass, and mirrors), including such items as bent (except when made into tableware) or enameled, sheet, plate, float and rolled glass; shower doors and tub enclosures (except tempered); watch crystals		(X)	84.7	(X)	42.1
32316 00	Other glass products made from purchased glass, n.s.k.		(X)	13.7	(X)	15.7
32310 00	Products made of purchased glass, n.s.k., for companies with 10 employees or more. (See note.)		(X)	64.0	(X)	37.8
32310 02	Products made of purchased glass, n.s.k., for companies with less than 10 employees. (See note.)		(X)	32.8	(X)	17.5

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Includes laminated glass (product codes 32113 11 to 32113 71 and 32313 98 to 32313 98).

²Detail does not add to total due to independent rounding.

³Includes glass of which one or both surfaces are roughed, figured, ribbed, or otherwise impressed; excludes glass block and tile.

⁴Combined to avoid disclosing figures for individual companies.

⁵Includes laminated glass made in the Flat Glass Industry (3211) and laminated glass made in Products of Purchased Glass Industry (3231), combined to avoid disclosing figures for individual companies. For 1972, no production of shipments of "Laminated plate over 1/4 inch" (code 32113 31), "Laminated sheet (window) glass" (code 32113 51), or "Other laminated glass" (code 32113 71) were reported in the Flat Glass Industry (3211). The same was true for 1967, except that a small amount of "Laminated plate over 1/4 inch" (code 32113 31) was produced in the Flat Glass Industry (3211).

⁶Includes all glassware shipped by establishments classified in industry 3229; that is, both glassware manufactured from glass produced in the same establishment and glassware manufactured from purchased glass.

⁷The 1972 category for "All Other Pressed and Blown Glassware" was overstated in the Current Industrial Report, series MA-32E, due to the misclassification of some establishments. Revisions to the 1972 data will be shown in the 1973 report.

⁸Total excludes product class 32313, laminated glass, which was combined with laminated glass made in the Flat Glass Industry (3211) to avoid disclosing figures of individual companies. The combined total for laminated glass was \$528.0 million for 1972 and \$361.7 million for 1967.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SHEET (WINDOW) GLASS (32111)			OTHER FLAT GLASS, FROM GLASS PRODUCED IN ESTABLISHMENT (32114)—Continued		
United States.....	GG	(NA)	South Region.....	FF	(NA)
Northeast Region.....	EE	(NA)	South Atlantic Division.....	AA	(NA)
Middle Atlantic Division.....	EE	(NA)	West Virginia.....	AA	(NA)
Pennsylvania.....	EE	(NA)	East South Central Division.....	FF	(NA)
North Central Region.....	FF	(NA)	Tennessee.....	FF	(NA)
East North Central Division.....	FF	(NA)	West Region.....	FF	(NA)
Ohio.....	FF	(NA)	Pacific Division.....	FF	(NA)
Illinois.....	EE	(NA)	California.....	FF	(NA)
South Region.....	GG	(NA)			
South Atlantic Division.....	65.9	(NA)	TABLE, KITCHEN, ART, AND NOVELTY GLASSWARE (32291)		
West Virginia.....	GG	(NA)	United States.....	432.9	266.9
West South Central Division.....	FF	(NA)	Northeast Region.....	GG	GG
Arkansas.....	EE	(NA)	Middle Atlantic Division.....	GG	GG
Oklahoma.....	FF	(NA)	New York.....	FF	EE
West Region.....	CC	(NA)	Pennsylvania.....	53.2	35.7
Pacific Division.....	CC	(NA)	North Central Region.....	198.1	124.9
California.....	CC	(NA)	East North Central Division.....	198.1	124.9
			Ohio.....	GG	100.7
PLATE AND FLOAT GLASS (32112)			Indiana.....	FF	EE
United States.....	361.8	(NA)	Illinois.....	GG	AA
Northeast Region.....	GG	(NA)	South Region.....	125.3	83.9
Middle Atlantic Division.....	GG	(NA)	South Atlantic Division.....	GG	GG
Pennsylvania.....	GG	(NA)	West Virginia.....	GG	GG
North Central Region.....	170.6	(NA)	West South Central Division.....	EE	CC
East North Central Division.....	GG	(NA)	Oklahoma.....	EE	CC
Ohio.....	GG	(NA)	West Region.....	EE	CC
Illinois.....	FF	(NA)	Pacific Division.....	EE	CC
Michigan.....	FF	(NA)	California.....	EE	CC
West North Central Division.....	FF	(NA)			
Missouri.....	FF	(NA)	LIGHTING AND ELECTRONIC GLASSWARE (32292)		
South Region.....	GG	(NA)	United States.....	394.6	328.9
South Atlantic Division.....	FF	(NA)	Northeast Region.....	145.9	119.0
Maryland.....	FF	(NA)	New England Division.....	EE	EE
East South Central Division.....	GG	(NA)	New Hampshire.....	AA	EE
Tennessee.....	GG	(NA)	Rhode Island.....	EE	EE
West Region.....	BB	(NA)	Middle Atlantic Division.....	GG	GG
Pacific Division.....	BB	(NA)	New York.....	EE	GG
California.....	BB	(NA)	New Jersey.....	BB	AA
			Pennsylvania.....	108.4	34.7
LAMINATED GLASS, FROM GLASS PRODUCED IN ESTABLISHMENT (32113)			North Central Region.....	191.2	GG
United States.....	GG	(NA)	East North Central Division.....	GG	175.3
North Central Region.....	FF	(NA)	Ohio.....	122.4	74.4
East North Central Division.....	FF	(NA)	Indiana.....	FF	GG
Michigan.....	FF	(NA)	Michigan.....	FF	FF
South Region.....	FF	(NA)	West North Central Division.....	AA	(1)
East South Central Division.....	FF	(NA)	Kansas.....	AA	(1)
Tennessee.....	FF	(NA)	South Region.....	GG	FF
West Region.....	FF	(NA)	South Atlantic Division.....	23.8	(1)
Pacific Division.....	FF	(NA)	Virginia.....	BB	(1)
California.....	FF	(NA)	West Virginia.....	EE	14.1
			East South Central Division.....	FF	EE
OTHER FLAT GLASS, FROM GLASS PRODUCED IN ESTABLISHMENT (32114)			Kentucky.....	FF	EE
United States.....	193.6	(NA)	Mississippi.....	AA	AA
Northeast Region.....	BB	(NA)	West South Central Division.....	CC	BB
Middle Atlantic Division.....	BB	(NA)	Arkansas.....	BB	AA
New York.....	BB	(NA)	Oklahoma.....	BB	AA
North Central Region.....	GG	(NA)			
East North Central Division.....	GG	(NA)	GLASS FIBER (TEXTILE-TYPE FIBER) (32293)		
Ohio.....	GG	(NA)	United States.....	253.5	138.1
Illinois.....	BB	(NA)	Northeast Region.....	FF	FF
West North Central Division.....	CC	(NA)	New England Division.....	EE	EE
Missouri.....	CC	(NA)	Rhode Island.....	EE	EE
			Middle Atlantic Division.....	EE	EE
			New York.....	AA	(1)
			Pennsylvania.....	EE	EE

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
GLASS FIBER (TEXTILE-TYPE FIBER)--Continued			MIRRORS (32315)--Continued		
North Central Region.....	FF	EE	Northeast Region--Continued		
East North Central Division.....	FF	EE	Middle Atlantic Division.....	49.1	41.2
Ohio.....	FF	9.5	New York.....	30.9	21.0
South Region.....	GG	92.5	New Jersey.....	BB	4.5
South Atlantic Division.....	GG	GG	Pennsylvania.....	EE	15.7
North Carolina.....	GG	FF	North Central Region.....	58.9	40.3
South Carolina.....	GG	GG	East North Central Division.....	58.9	39.1
East South Central Division.....	FF	CC	Ohio.....	14.0	8.1
Kentucky.....	BB	(1)	Indiana.....	18.0	13.8
Tennessee.....	FF	CC	Illinois.....	10.8	CC
West Region.....	BB	AA	Michigan.....	EE	EE
Pacific Division.....	BB	AA	Wisconsin.....	AA	(1)
California.....	BB	AA	South Region.....	111.2	69.1
OTHER PRESSED AND BLOWN GLASSWARE (32294)			South Atlantic Division.....	78.2	52.1
United States.....	166.6	132.4	Virginia.....	25.0	EE
Northeast Region.....	85.4	87.5	North Carolina.....	47.0	32.4
New England Division.....	BB	BB	South Carolina.....	AA	(1)
Rhode Island.....	BB	BB	Georgia.....	3.2	(1)
Middle Atlantic Division.....	GG	GG	East South Central Division.....	26.2	14.1
New York.....	EE	FF	Tennessee.....	EE	CC
New Jersey.....	GG	FF	Mississippi.....	CC	BB
Pennsylvania.....	14.0	24.8	West South Central Division.....	6.7	2.9
North Central Region.....	EE	6.7	Arkansas.....	4.5	BB
East North Central Division.....	EE	6.7	Texas.....	BB	(1)
Ohio.....	13.2	CC	West Region.....	20.8	BB
Indiana.....	AA	(1)	Pacific Division.....	FF	4.4
South Region.....	GG	38.2	Oregon.....	AA	(1)
South Atlantic Division.....	33.1	23.5	California.....	18.7	4.0
Virginia.....	CC	(1)	OTHER GLASS PRODUCTS, MADE OF PURCHASED		
West Virginia.....	23.1	EE	GLASS (32316)		
East South Central Division.....	FF	CC	United States.....	626.0	352.1
Kentucky.....	FF	CC	Northeast Region.....	243.4	153.6
West South Central Division.....	BB	BB	New England Division.....	25.6	16.4
Oklahoma.....	BB	BB	Massachusetts.....	EE	6.2
Other Glass Products, Made of Purchased Glass (32313)			Rhode Island.....	BB	BB
United States.....	439.5	(NA)	Connecticut.....	4.1	5.7
Northeast Region.....	GG	(NA)	Middle Atlantic Division.....	217.7	137.2
Middle Atlantic Division.....	GG	(NA)	New York.....	55.0	36.8
Pennsylvania.....	GG	(NA)	New Jersey.....	65.7	41.4
North Central Region.....	299.7	(NA)	Pennsylvania.....	97.0	59.1
East North Central Division.....	GG	(NA)	North Central Region.....	210.6	134.7
Ohio.....	GG	(NA)	East North Central Division.....	191.7	125.4
Illinois.....	GG	(NA)	Ohio.....	GG	48.7
Michigan.....	127.5	(NA)	Indiana.....	20.5	8.4
West North Central Division.....	EE	(NA)	Illinois.....	37.1	35.1
Kansas.....	EE	(NA)	Michigan.....	31.2	30.7
South Region.....	FF	(NA)	Wisconsin.....	BB	2.5
South Atlantic Division.....	CC	(NA)	West North Central Division.....	18.8	9.3
North Carolina.....	CC	(NA)	Minnesota.....	BB	AA
East South Central Division.....	FF	(NA)	Iowa.....	CC	BB
Tennessee.....	FF	(NA)	Missouri.....	5.2	3.7
Alabama.....	CC	(NA)	Kansas.....	BB	(1)
West South Central Division.....	AA	(NA)	South Region.....	128.3	46.4
Arkansas.....	AA	(NA)	South Atlantic Division.....	65.8	37.0
West Region.....	CC	(NA)	Maryland.....	AA	AA
Mountain Division.....	BB	(NA)	Virginia.....	EE	EE
Colorado.....	BB	(NA)	West Virginia.....	18.5	10.8
Pacific Division.....	BB	(NA)	North Carolina.....	9.5	AA
California.....	BB	(NA)	Georgia.....	9.1	1.2
MIRRORS (32315)			Florida.....	16.4	5.7
United States.....	254.4	160.0	East South Central Division.....	FF	CC
Northeast Region.....	63.5	FF	Tennessee.....	FF	BB
New England Division.....	14.5	BB	Mississippi.....	BB	BB
Connecticut.....	12.7	BB	West South Central Division.....	EE	BB
			Oklahoma.....	BB	(1)
			Texas.....	9.6	BB
			West Region.....	43.4	17.4
			Mountain Division.....	BB	AA
			Colorado.....	BB	AA
			Pacific Division.....	FF	EE
			California.....	37.5	15.8

See footnotes on next page.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1972 and 1967—Continued

(Footnotes for table 6B)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available:

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3211	Flat glass ²	1,247.1	1,146.0	972.8	1,029.0	969.9	810.9	733.1	547.0
32111	Sheet (window) glass.....	157.3	158.0	137.3	153.6	142.5	133.2		
32112	Plate and flat glass.....	361.8	281.4	240.6	233.2	227.3	183.3		
32114	Other flat glass, made from glass produced in same establishment.....	193.6	211.8	170.8	192.1	177.8	130.2	274.4	200.8
32113	Laminated glass, made from glass produced in same establishment.....	534.4	492.2	421.7	449.3	422.3	361.7	317.3	253.8
32313	Laminated glass, made of purchased glass.....	-	2.6	(2.4)	.8	-	2.6	-	-
32110	Flat glass, n.s.k.....	-	2.6	(2.4)	.8	-	2.6	-	-
32210	Glass containers.....	2,085.2	1,926.8	1,836.7	1,638.7	1,385.7	1,331.0	982.4	841.6
3229	Pressed and blown glass, n.e.c.....	1,262.5	1,111.7	1,002.1	1,027.6	984.2	880.4	615.1	448.0
32291	Table, kitchen, art, and novelty glassware.....	432.9	370.2	329.1	318.5	297.9	266.9	220.3	149.0
32292	Lighting and electronic glassware.....	394.6	313.6	307.0	309.3	352.2	328.9	210.3	143.3
32293	Glass fiber (textile type fiber).....	253.5	232.2	207.0	235.8	173.8	138.1	91.6	59.7
32294	Other pressed and blown glassware.....	166.6	162.1	150.5	154.6	151.2	137.5	92.5	96.0
32290	Pressed and blown glass, n.e.c., n.s.k.....	14.8	(33.6)	(8.5)	9.4	9.1	9.0	(.4)	-
3231	Products of purchased glass ³	977.1	745.5	626.4	666.5	599.8	567.4	412.0	279.3
32315	Mirrors.....	254.5	183.0	164.9	188.7	172.7	160.0	123.4	88.0
32316	Other glass products, made of purchased glass.....	625.8	525.9	427.4	423.8	375.5	352.1	275.2	157.1
32310	Products of purchased glass, n.s.k.....	96.8	(36.6)	(34.1)	54.0	51.6	55.3	13.4	(S)

- Represents zero. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments wither have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Includes laminated glass (product classes 32113 and 32213) which is primary to industry 3211 when made by primary glass producers, and industry 3231 when made from purchased glass. Separate totals withheld to avoid disclosing figures of individual companies.

³Excludes laminated glass, product class 32313.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3211.--FIAT GLASS					
	Materials, containers, and supplies, total.....		(X)	220.7	(X)	157.1
281228	Sodium carbonate (soda ash) (98-100% Na ₂ CO ₃).....	1,000 s. tons.	540.8	22.7	386.5	14.5
144611	Glass sand, all types.....	...do.....	1,952.1	13.9	1,495.0	7.8
281976	Sodium sulfate (including salt cake).....	...do.....	65.8	2.4	(S)	(S)
321121	Plate glass.....	Million sq.ft.	182.0	53.8	45.1	15.4
321111	Sheet glass.....	...do.....	(D)	(D)	19.6	4.3
	Refractories:					
325501	Clay.....	1,000 s. tons.	(D)	(D)	13.8	3.0
329701	Nonclay.....	...do.....				
999816	Cullet (glass scrap).....	Million lb...	824.9	7.2	487.1	3.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	116.8	(X)	104.6
972000	All other materials, containers, and supplies, n.s.k.....		(X)	(D)	(X)	2.5
	INDUSTRY 3221.--GLASS CONTAINERS					
	Materials, containers, and supplies, total.....		(X)	620.0	(X)	407.4
281228	Sodium carbonate (soda ash) (98-100% Na ₂ CO ₃).....	1,000 s. tons.	2,640.8	110.4	1,979.0	70.1
144611	Glass sand, all types.....	...do.....	7,818.3	60.1	7,132.5	36.4
	Refractories:					
325501	Clay.....	...do.....	(S)	2.1	(S)	3.7
329701	Nonclay.....	...do.....	1.8	1.6	(S)	3.9
265301	Corrugated paperboard shipping containers.....	...do.....	(S)	(¹)	(X)	148.7
265019	All other paperboard containers and boxes.....	...do.....	(S)	14.9	(X)	9.6
999816	Cullet (glass scrap).....	...do.....	1,589.8	28.0	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	1401.1	(X)	129.5
972000	Materials not specified.....		(X)	1.9	(X)	5.6
	INDUSTRY 3229.--PRESSED AND BLOWN GLASS, N.E.C.					
	Materials, containers, and supplies, total.....		(X)	257.3	(X)	185.2
281228	Sodium carbonate (soda ash) (98-100% Na ₂ CO ₃).....	1,000 s. tons.	253.0	10.6	236.2	8.0
144611	Glass sand, all types.....	...do.....	3,640.8	41.0	1,282.2	9.6
281976	Sodium sulfate (including salt cake).....	...do.....	(D)	(D)	(S)	(S)
321121	Plate glass.....	Million sq. ft.	(D)	(D)	(S)	(S)
321111	Sheet glass.....	...do.....	(D)	(D)	(S)	(S)
322911	Glass tumblers, stemware, and other tableware.....		(X)	5.0	(S)	(S)
322901	Other glass products.....		(X)	14.1	(D)	(D)
	Refractories:					
325501	Clay.....	1,000 s. tons.	(S)	2.6	15.2	4.6
329701	Nonclay.....	...do.....	(S)	2.7	(S)	(S)
265301	Corrugated paperboard shipping containers.....		(X)	37.0	(X)	28.5
999816	Cullet (glass scrap).....	Million lb...	594.8	11.1	516.7	7.3
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	126.0	(X)	97.4
973000	All other materials, containers, and supplies, n.s.k.....		(X)	4.1	(X)	(D)
	INDUSTRY 3231.--PRODUCTS OF PURCHASED GLASS					
	Materials, containers, and supplies, total.....		(X)	577.0	(X)	350.9
321121	Plate glass.....	Million sq. ft.	673.2	238.5	367.2	138.8
321111	Sheet glass.....	...do.....	393.3	85.3	349.3	62.0
322911	Glass tumblers, stemware, and other tableware.....		(X)	9.0	(X)	7.3
322901	Other glass products.....		(X)	34.3	(X)	24.1
265301	Corrugated paperboard shipping containers.....		(X)	8.9	(X)	7.4
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	135.5	(X)	88.7
973000	Materials, containers, and supplies, n.s.k.....		(X)	65.5	(X)	22.6

(X) Not applicable. (NA) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Data for corrugated paperboard shipping containers are combined with "All other materials and components, parts containers, and supplies consumed." In a review of this industry, it was found that a large number of establishments reported data for corrugated paperboard shipping containers under the second category.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
INDUSTRY 3211.--FLAT GLASS						
	Purchased fuels and electric energy.....		(X)	34.5	(X)	28.7
	Purchased fuels, total.....		(X)	25.7	(X)	20.7
121005	Coal.....	1,000 s. tons....	144.8	1.9	(D)	(D)
331212	Coke.....	...do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	59.7	.2	(D)	(D)
291141	Distillate.....	...do.....	1.8	(Z)	(D)	(D)
291151	Residual.....	...do.....	58.0	.2	(D)	(D)
131300	Natural gas.....	Billion ft ³	50.4	23.6	36.6	16.4
960011	Other fuels.....		(X)	(Z)	(X)	(D)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(D)
960012	Purchased electric energy.....	Million kWh.....	834.8	8.8	988.3	8.0
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	175.3	-
	Total energy used for heat and power.....	Bil. kWh equiv....	17.3	-	15.6	-
INDUSTRY 3221.--GLASS CONTAINERS						
	Purchased fuels and electric energy.....		(X)	97.8	(X)	65.5
	Purchased fuels, total.....		(X)	66.1	(X)	45.7
121005	Coal.....	1,000 s. tons....	-	-	(D)	(D)
331212	Coke.....	...do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	1,479.3	6.8	1,419.6	4.2
291141	Distillate.....	...do.....	1,048.1	4.8	263.4	1.2
291151	Residual.....	...do.....	431.2	2.0	1,156.2	3.0
131300	Natural gas.....	Billion ft ³	116.2	57.9	94.6	39.7
960011	Other fuels.....		(X)	1.1	(X)	(D)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	3,398.3	31.7	2,329.8	19.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	4.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	41.6	-	34.6	-
INDUSTRY 3229.--PRESSED AND BLOWN GLASS, N.E.C.						
	Purchased fuels and electric energy.....		(X)	48.9	(X)	37.3
	Purchased fuels, total.....		(X)	33.6	(X)	27.1
121005	Coal.....	1,000 s. tons....	3.8	(Z)	13.4	.1
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	327.4	1.6	478.1	.9
291141	Distillate.....	...do.....	159.0	.8	112.2	.5
291151	Residual.....	...do.....	168.4	.8	365.9	.4
131300	Natural gas.....	Billion ft ³	55.0	29.2	47.6	21.9
960011	Other fuels.....		(X)	1.5	(X)	1.5
975000	Fuels, n.s.k.....		(X)	1.3	(X)	2.7
960012	Purchased electric energy.....	Million kWh.....	1,557.4	15.3	1,194.8	10.2
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	20.1	-	18.8	-
INDUSTRY 3231.--PRODUCTS OF PURCHASED GLASS						
	Purchased fuels and electric energy.....		(X)	14.4	(X)	9.2
	Purchased fuels, total.....		(X)	6.6	(X)	4.6
121005	Coal.....	1,000 s. tons....	25.5	.2	31.3	.1
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	84.1	.3	70.6	.2
291141	Distillate.....	...do.....	67.8	.3	29.0	.1
291151	Residual.....	...do.....	16.3	.1	41.6	.1
131300	Natural gas.....	Billion ft ³	7.7	4.2	4.5	2.5
960011	Other fuels.....		(X)	(S)	(X)	.1
975000	Fuels, n.s.k.....		(X)	(S)	(X)	1.7
960012	Purchased electric energy.....	Million kWh.....	633.9	7.8	357.1	4.6
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	22.2	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.1	-	3.4	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown.

Cement and Structural Clay Products

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EXPLANATORY TEXT

CEMENT AND STRUCTURAL CLAY PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3241—Cement, Hydraulic**
- 3251—Brick and Structural Clay Tile**
- 3253—Ceramic Wall and Floor Tile**
- 3255—Clay Refractories**
- 3259—Structural Clay Products, N.E.C.**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3241.—CEMENT, HYDRAULIC

This industry comprises establishments primarily engaged in the manufacture of hydraulic cement, including portland, natural, masonry, and pozzolan cements. For a detailed list of products of industry 3241, refer to table 6A, product codes 32410 11 to 32410 51.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Cement, Hydraulic, Industry in 1972 totaled \$1,798 million. This included shipments of hydraulic cement (primary products) valued at \$1,756 million, shipments of other products (secondary products) valued at \$21 million, and miscellaneous receipts (mainly resales) of \$21 million.

Shipments of hydraulic cement (primary products) in 1972 represented 99 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 99 percent. Secondary products shipped by this industry in 1972 consisted mainly of crushed and broken limestone (\$4 million) and minerals, ground or treated (\$4 million).

Shipments of hydraulic cement (primary products) from establishments classified in industry 3241 in 1972 represented 99 percent (coverage ratio) of these products valued at \$1,770 million shipped by all industries. In 1967, the coverage ratio was also 99 percent. Other industries shipping hydraulic cement consisted mainly of industry 2441, Nailed Wood Boxes and Shook; industry 2812, Alkalies and Chlorine; and industry 3273, Ready-Mixed Concrete (each over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3241, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3251.—BRICK AND STRUCTURAL CLAY TILE

This industry comprises establishments primarily engaged in the manufacture of brick and structural clay tile. Establishments primarily engaged in manufacturing clay firebrick are classified in industry 3255, nonclay firebrick in industry 3297, sand lime brick in industry 3299, and glass brick in industry 3229. For a detailed list of products of industry 3251, refer to table 6A, product codes 32511 11 to 32512 51.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Brick and Structural Clay Tile Industry in 1972 totaled \$513 million. This included shipments of brick and structural clay tile (primary products) valued at \$468 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts (mainly resales) of \$34 million.

Shipments of brick and structural clay tile (primary products) in 1972 represented 98 percent (specialization ratio) of the industry's total product shipments (primary and second-

ary). The industry specialization ratio in 1967 was also 98 percent. Secondary products shipped by this industry in 1972 consisted mainly of structural clay products, n.e.c., \$5 million.

Shipments of brick and structural clay tile (primary products) from establishments classified in industry 3251 in 1972 represented 99 percent (coverage ratio) of these products valued at \$471 million shipped by all industries. In 1967, the coverage ratio was also 99 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3251, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3253.—CERAMIC WALL AND FLOOR TILE

This industry comprises establishments primarily engaged in the manufacture of ceramic wall and floor tile and includes glazed wall tile, ceramic mosaic tile, and quarry tile. Establishments primarily engaged in manufacturing structural clay tile and facing tile are classified in industry 3251 and drain tile in industry 3259. For a detailed list of products of industry 3253, refer to table 6A, product codes 32530 13 to 32530 71.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Ceramic Wall and Floor Tile Industry in 1972 totaled \$176 million. This included shipments of ceramic wall and floor tile (primary products) valued at \$151 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly resales) of \$21 million.

Shipments of ceramic wall and floor tile (primary products) in 1972 represented 98 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent.

Shipments of ceramic wall and floor tile (primary products) from establishments classified in industry 3253 in 1972 represented 96 percent (coverage ratio) of these products valued at \$158 million shipped by all industries. In 1967, the coverage ratio was 99 percent. Other industries shipping ceramic wall and floor tile consisted mainly of industry 3263, Fine Earthenware Food Utensils (over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail

portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3253, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3255.—CLAY REFRACTORIES

This industry comprises establishments primarily engaged in the manufacture of clay firebrick and other heat resisting clay products. Establishments primarily engaged in manufacturing nonclay refractories, as well as all graphite refractories, whether of carbon bond or ceramic bond, are classified in industry 3297. For a detailed list of products of industry 3255, refer to table 6A, product codes 32550 11 to 32550 94.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Clay Refractories Industry in 1972 totaled \$337 million. This included shipments of clay refractories (primary products) valued at \$279 million, shipments of other products (secondary products) valued at \$42 million, and miscellaneous receipts (mainly resales) of \$16 million.

Shipments of clay refractories (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent. Secondary products shipped by this industry in 1972 consisted mainly of nonclay refractories (\$31 million) and mineral wool (over \$2 million).

Shipments of clay refractories (primary products) from establishments classified in industry 3255 in 1972 represented 92 percent (coverage ratio) of these products valued at \$302 million shipped by all industries. In 1967, the coverage ratio was also 92 percent. Other industries shipping clay refractories consisted mainly of industry 3297, Nonclay Refractories (\$10 million) and industry 3356, Nonferrous Rolling and Drawing, N.E.C. (over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3255, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3259.—STRUCTURAL CLAY PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of clay sewer pipe and structural clay products, not elsewhere classified, such as architectural terra cotta, roofing tile, conduit, chimney pipe, wall coping, adobe brick, etc. For a detailed list of products of industry 3259, refer to table 6A, product codes 32591 11 to 32592 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Structural Clay Products, N.E.C., Industry in 1972 totaled \$181 million. This included shipments of structural clay products, n.e.c. (primary products) valued at \$163 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly resales) of \$10 million.

Shipments of structural clay products, n.e.c. (primary products) in 1972 represented 95 percent (specialization ratio)

of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent. Secondary products shipped by this industry in 1972 consisted mainly of miscellaneous plastics products (over \$2 million) and clay refractories (\$2 million).

Shipments of structural clay products, n.e.c. (primary products) from establishments classified in industry 3259 in 1972 represented 96 percent (coverage ratio) of these products valued at \$169 million shipped by all industries. In 1967, the coverage ratio was also 96 percent. Other industries shipping structural clay products, n.e.c., consisted mainly of industry 3251, Brick and Structural Clay Tile (\$5 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3259, these establishments accounted for 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3241.--CEMENT, HYDRAULIC															
1972 Census.....	199	172	30.1	350.7	24.4	49.9	276.5	1,157.7	657.8	1,797.9	179.9	(NA)	239.3	99	99
1971 ASM.....	(NA)	(NA)	28.8	303.6	23.2	47.4	233.9	976.3	564.9	1,560.3	159.2	2,832.0	211.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	30.2	292.3	24.3	49.3	224.7	886.1	506.7	1,376.7	98.0	2,818.6	229.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	30.4	273.8	24.6	50.6	211.3	890.6	491.8	1,392.1	94.8	2,828.2	203.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	30.8	248.7	24.9	50.8	190.5	868.1	451.7	1,318.4	67.6	2,710.1	202.9	(NA)	(NA)
1967 Census.....	197	180	32.6	247.7	26.2	52.5	184.4	812.3	439.2	1,246.5	90.5	2,656.9	204.3	99	99
1966 ASM.....	(NA)	(NA)	33.6	244.3	26.9	54.7	186.1	839.3	424.5	1,253.4	94.8	(NA)	190.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	34.5	243.6	27.9	55.9	181.5	840.4	406.1	1,250.8	117.4	(NA)	176.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	34.7	233.6	28.0	57.0	176.9	805.0	397.4	1,198.9	93.9	2,384.2	179.9	(NA)	(NA)
1963 Census.....	188	179	34.9	227.4	28.7	57.6	173.9	785.7	388.7	1,176.9	120.8	2,340.8	180.6	99	99
1962 ASM.....	(NA)	(NA)	35.5	220.9	29.7	59.1	171.1	771.8	360.4	1,131.1	96.7	2,233.0	179.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	36.4	218.1	30.5	60.5	170.6	752.9	355.4	1,107.9	100.2	(NA)	180.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	39.4	227.9	33.2	66.7	180.2	760.8	366.8	1,112.3	114.3	(NA)	186.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	41.1	229.8	35.0	71.2	183.0	815.1	379.5	1,191.0	119.4	(NA)	171.9	(NA)	(NA)
1958 Census.....	175	170	41.1	214.2	34.8	69.5	170.2	724.8	354.4	1,073.5	113.1	(NA)	166.6	99	99
INDUSTRY 3251.--BRICK AND STRUCTURAL CLAY TILE															
1972 Census.....	417	302	24.1	168.4	20.4	42.2	128.5	336.4	170.5	513.0	38.6	(NA)	53.0	98	99
1971 ASM.....	(NA)	(NA)	22.9	148.4	18.9	39.0	111.5	300.7	154.9	459.8	25.3	400.3	63.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	23.3	139.1	19.5	39.3	104.5	262.8	136.2	392.9	*15.8	398.3	66.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	26.9	154.9	22.7	47.4	118.8	273.8	128.8	401.5	26.6	399.2	61.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	27.2	149.4	23.1	47.3	114.7	275.7	121.8	400.0	30.4	381.9	59.0	(NA)	(NA)
1967 Census.....	482	363	27.5	143.8	23.3	47.9	109.8	251.1	114.8	362.0	27.1	361.8	60.6	98	99
1966 ASM.....	(NA)	(NA)	29.4	149.3	25.3	53.1	117.3	274.9	123.4	386.8	25.5	(NA)	61.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	29.9	145.0	25.7	53.2	113.8	264.3	120.6	384.7	26.4	(NA)	49.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	29.2	134.8	25.0	52.8	105.7	258.4	106.8	365.9	*19.4	257.4	49.7	(NA)	(NA)
1963 Census.....	512	400	28.6	130.4	24.7	51.2	102.6	216.5	106.0	325.1	19.3	245.2	48.0	98	99
1962 ASM.....	(NA)	(NA)	33.1	139.5	28.8	58.9	110.1	238.0	164.8	400.2	15.7	238.8	54.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	34.0	136.2	29.7	59.5	108.3	225.2	150.9	370.5	*19.9	(NA)	54.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	34.2	135.4	29.5	59.1	107.3	214.9	151.6	359.7	*13.8	(NA)	50.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	34.1	135.9	29.8	61.3	108.5	226.1	119.6	342.5	*20.0	(NA)	45.3	(NA)	(NA)
1958 Census.....	569	430	31.1	122.9	27.0	55.3	97.2	196.9	89.4	286.7	14.0	(NA)	42.8	96	98
INDUSTRY 3253.--CERAMIC WALL AND FLOOR TILE															
1972 Census.....	83	56	8.3	58.5	6.8	14.0	43.4	112.3	65.8	175.6	7.6	(NA)	35.0	98	96
1971 ASM.....	(NA)	(NA)	7.9	50.9	6.4	13.1	36.4	100.9	50.6	152.3	3.6	108.6	31.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.1	58.3	7.1	14.9	39.5	104.0	50.5	154.1	5.6	116.5	37.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	10.1	64.9	8.1	16.6	45.4	110.7	57.0	169.1	8.7	110.7	37.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	10.6	64.2	8.4	17.5	44.5	118.2	56.4	173.1	5.5	110.9	36.9	(NA)	(NA)
1967 Census.....	80	59	10.6	60.6	8.5	17.6	41.8	105.9	54.9	160.5	4.7	111.0	35.2	93	99
1966 ASM.....	(NA)	(NA)	11.6	63.5	9.4	19.6	45.8	105.4	58.1	162.1	8.2	(NA)	38.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.6	65.6	10.2	20.9	46.5	113.6	60.6	173.0	12.8	(NA)	37.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	13.1	66.4	10.4	21.6	46.2	117.0	60.9	175.4	7.1	96.4	36.4	(NA)	(NA)
1963 Census.....	90	64	12.8	63.7	10.4	21.0	43.8	110.6	55.1	164.7	9.1	90.4	33.2	95	99
1962 ASM.....	(NA)	(NA)	13.2	62.8	10.7	22.0	44.4	120.2	56.9	173.4	*5.4	83.2	31.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	12.6	57.6	10.0	20.2	39.4	101.6	50.9	153.7	3.8	(NA)	27.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	13.8	61.3	11.1	23.0	43.9	106.9	52.4	157.6	5.6	(NA)	29.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	14.4	63.8	11.7	24.0	47.4	112.6	54.2	163.5	*8.5	(NA)	28.8	(NA)	(NA)
1958 Census.....	90	62	13.1	53.7	10.9	21.8	41.5	92.8	44.1	135.5	3.3	(NA)	24.1	94	99
INDUSTRY 3255.--CLAY REFRACTORIES															
1972 Census.....	157	102	11.3	100.8	8.5	16.7	66.5	202.6	132.2	337.4	10.8	(NA)	83.9	87	92
1971 ASM.....	(NA)	(NA)	11.6	102.1	8.5	16.4	63.6	198.7	122.2	317.9	11.9	259.0	88.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	12.3	103.3	9.2	18.1	65.8	213.6	123.0	333.7	15.5	262.3	80.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	13.0	97.8	10.2	19.6	64.7	195.8	122.1	317.4	12.6	225.0	72.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	12.3	87.9	9.6	18.5	58.7	166.8	105.1	270.2	11.4	212.4	69.1	(NA)	(NA)
1967 Census.....	145	107	12.6	84.3	10.1	19.2	59.2	151.4	97.4	246.1	17.9	209.2	65.6	92	92
1966 ASM.....	(NA)	(NA)	13.4	85.4	11.0	21.4	63.3	158.7	111.6	267.1	21.9	(NA)	63.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.6	77.6	10.4	20.7	58.5	140.6	103.4	243.3	11.5	(NA)	58.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	11.6	70.6	9.5	18.8	52.8	135.0	86.7	220.8	8.6	196.1	56.6	(NA)	(NA)
1963 Census.....	150	109	11.4	64.8	9.4	18.1	49.6	118.2	74.5	192.2	7.9	188.7	54.0	91	93
1962 ASM.....	(NA)	(NA)	12.0	67.1	10.3	18.1	49.3	114.6	74.0	189.3	8.1	187.5	53.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	12.9	68.5	11.1	19.4	51.5	113.1	78.2	189.7	6.5	(NA)	55.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	13.9	71.0	12.1	21.2	54.5	118.8	75.5	193.1	8.5	(NA)	54.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	13.6	69.9	11.8	21.2	53.0	123.0	72.5	193.2	9.9	(NA)	51.4	(NA)	(NA)
1958 Census.....	167	117	12.4	59.8	10.1	18.6	44.9	104.9	56.6	163.5	10.8	(NA)	46.3	93	92

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3259.--STRUCTURAL CLAY PRODUCTS, N.E.C.															
1972 Census.....	119	70	8.2	64.0	6.8	13.5	49.5	119.8	62.6	180.7	7.0	(NA)	32.9	95	96
1971 ASM.....	(NA)	(NA)	7.8	60.1	6.2	13.1	43.5	125.7	58.9	185.2	4.6	130.5	30.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	8.1	57.0	6.5	13.6	42.2	109.0	55.5	162.6	*5.4	133.7	31.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	9.9	64.5	8.4	17.3	50.9	118.5	63.8	184.9	6.4	132.4	30.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	9.9	60.6	8.4	17.5	48.0	116.8	57.5	171.0	*9.6	132.4	33.0	(NA)	(NA)
1967 Census.....	144	95	9.7	55.2	8.1	16.5	42.9	103.4	48.7	152.9	9.7	129.8	29.7	91	96
1966 ASM.....	(NA)	(NA)	10.9	58.0	9.2	18.6	45.3	102.8	56.0	155.7	5.9	(NA)	31.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	11.8	62.1	10.0	20.2	49.1	109.3	59.7	167.0	8.5	(NA)	28.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	11.3	61.3	9.4	20.5	47.7	112.7	56.9	168.7	6.6	120.6	26.6	(NA)	(NA)
1963 Census.....	164	108	12.2	62.0	10.4	21.1	48.7	108.4	53.4	159.7	5.8	116.7	27.4	89	95
1962 ASM.....	(NA)	(NA)	12.2	63.0	10.5	20.9	49.6	104.9	47.3	153.9	*7.4	112.8	24.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	13.1	62.9	11.3	22.9	49.8	107.4	45.2	150.1	8.2	(NA)	26.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	13.4	62.2	11.6	23.0	49.9	108.8	45.5	149.7	11.4	(NA)	23.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	13.9	62.2	11.7	23.4	48.9	107.7	43.9	156.6	6.8	(NA)	18.9	(NA)	(NA)
1958 Census.....	192	117	13.8	56.5	11.8	22.2	44.6	95.9	38.2	134.9	6.8	(NA)	19.8	97	94

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3241	Industry 3251	Industry 3253	Industry 3255	Industry 3259
1972.....	75	314	14	86	88
1967.....	65	377	57	83	110
1963.....	55	401	72	80	126

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3241.--CEMENT, HYDRAULIC											
1972 Census.....	11,651	(NA)	81	2,045	5.54	.37	.56	(NA)	38,462	30	23.20
1971 ASM.....	10,542	98,330	81	2,043	4.94	.36	.56	1,815	33,899	31	20.60
1970 ASM.....	9,679	93,330	81	2,029	4.56	.37	.58	2,047	29,341	33	17.97
1969 ASM.....	9,007	93,030	81	2,057	4.18	.35	.55	2,030	29,296	31	17.60
1968 ASM.....	8,075	87,990	81	2,040	3.75	.34	.53	2,060	28,185	29	17.09
1967 Census.....	7,589	81,500	80	2,000	3.51	.35	.55	2,130	24,885	30	15.46
1966 ASM.....	7,280	(NA)	80	2,032	3.40	.34	.53	(NA)	25,011	29	15.34
1965 ASM.....	7,051	(NA)	81	2,001	3.25	.32	.52	(NA)	24,324	29	15.05
1964 ASM.....	6,741	68.71	81	2,037	3.10	.33	.53	1,990	23,229	29	14.12
1963 Census.....	6,522	67.07	82	2,005	3.02	.33	.52	1,990	22,536	29	13.65
1962 ASM.....	6,220	62.90	84	1,989	2.90	.32	.51	1,970	21,729	29	13.07
1961 ASM.....	5,994	(NA)	84	1,982	2.82	.32	.52	(NA)	20,690	29	12.44
1960 ASM.....	5,791	(NA)	84	2,007	2.70	.33	.53	(NA)	19,331	30	11.40
1959 ASM.....	5,586	(NA)	85	2,033	2.57	.32	.51	(NA)	19,819	28	11.45
1958 Census.....	5,209	(NA)	85	1,998	2.45	.33	.53	(NA)	17,623	30	10.43

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3251.--BRICK AND STRUCTURAL CLAY TILE											
1972 Census.....	6,987	(NA)	85	2,068	3.04	.33	.66	(NA)	13,958	50	7.97
1971 ASM.....	6,480	17,480	83	2,063	2.86	.34	.66	871	13,131	49	7.71
1970 ASM.....	5,970	17,094	84	2,015	2.66	.35	.70	1,014	11,279	53	6.69
1969 ASM.....	5,758	14,840	84	2,088	2.51	.32	.71	990	10,178	57	5.78
1968 ASM.....	5,493	14,040	85	2,048	2.43	.30	.68	950	10,136	54	5.83
1967 Census.....	5,234	13,160	85	2,053	2.29	.32	.71	1,000	9,141	57	5.24
1966 ASM.....	5,071	(NA)	86	2,102	2.21	.32	.71	(NA)	9,340	54	5.17
1965 ASM.....	4,857	(NA)	86	2,068	2.14	.31	.69	(NA)	8,851	55	4.97
1964 ASM.....	4,615	8,820	86	2,111	2.00	.29	.66	700	8,845	52	4.89
1963 Census.....	4,555	8,570	86	2,077	2.00	.33	.73	750	7,566	60	4.23
1962 ASM.....	4,213	7,210	87	2,047	1.87	.41	.76	600	7,189	59	4.04
1961 ASM.....	4,007	(NA)	87	2,005	1.82	.41	.77	(NA)	6,627	60	3.78
1960 ASM.....	3,964	(NA)	86	2,007	1.81	.42	.80	(NA)	6,293	63	3.63
1959 ASM.....	3,984	(NA)	87	2,060	1.77	.35	.75	(NA)	6,628	60	3.69
1958 Census.....	3,952	(NA)	87	2,052	1.76	.31	.74	(NA)	6,334	62	3.56
INDUSTRY 3253.--CERAMIC WALL AND FLOOR TILE											
1972 Census.....	7,048	(NA)	82	2,059	3.10	.37	.71	(NA)	13,530	52	8.02
1971 ASM.....	6,443	13,750	81	2,047	2.78	.33	.67	713	12,772	50	7.70
1970 ASM.....	6,407	12,800	78	2,099	2.65	.33	.71	756	11,429	56	6.98
1969 ASM.....	6,426	10,960	80	2,049	2.74	.34	.72	650	10,960	59	6.67
1968 ASM.....	6,057	10,460	79	2,083	2.54	.33	.70	640	11,151	54	6.75
1967 Census.....	5,708	10,470	80	2,077	2.38	.34	.72	690	9,974	57	6.02
1966 ASM.....	5,467	(NA)	81	2,081	2.34	.36	.75	(NA)	9,073	60	5.37
1965 ASM.....	5,215	(NA)	81	2,053	2.22	.35	.73	(NA)	9,034	58	5.42
1964 ASM.....	5,083	7,360	80	2,071	2.14	.35	.73	550	8,956	57	5.42
1963 Census.....	4,982	7,060	81	2,018	2.09	.53	.72	550	8,642	58	5.26
1962 ASM.....	4,740	6,300	81	2,058	2.02	.33	.69	480	9,073	52	5.46
1961 ASM.....	4,580	(NA)	80	2,013	1.95	.33	.71	(NA)	8,082	57	5.03
1960 ASM.....	4,454	(NA)	81	2,070	1.91	.33	.72	(NA)	7,769	57	4.66
1959 ASM.....	4,436	(NA)	81	2,061	1.97	.33	.72	(NA)	7,836	57	4.69
1958 Census.....	4,112	(NA)	83	1,999	1.91	.33	.72	(NA)	7,100	58	4.26
INDUSTRY 3255.--CLAY REFRACTORIES											
1972 Census.....	8,920	(NA)	74	1,965	3.98	.39	.69	(NA)	17,929	50	12.13
1971 ASM.....	8,802	22,330	73	1,929	3.88	.38	.71	815	17,129	51	12.12
1970 ASM.....	8,398	21,330	75	1,967	3.64	.37	.68	786	17,366	48	11.80
1969 ASM.....	7,523	17,310	78	1,922	3.30	.38	.69	710	15,062	50	9.99
1968 ASM.....	7,146	17,270	78	1,927	3.17	.39	.71	790	13,561	53	9.02
1967 Census.....	6,697	16,600	80	1,905	3.09	.40	.74	850	12,035	56	7.90
1966 ASM.....	6,362	(NA)	82	1,951	2.96	.42	.74	(NA)	11,824	54	7.43
1965 ASM.....	6,140	16,910	83	1,983	2.83	.43	.74	(NA)	11,124	55	6.79
1964 ASM.....	6,077	*16,910	81	1,983	2.81	.39	.71	890	11,616	52	7.20
1963 Census.....	5,671	16,550	82	1,929	2.74	.39	.72	980	10,345	55	6.52
1962 ASM.....	5,579	15,630	86	1,749	2.73	.39	.75	990	9,533	59	6.35
1961 ASM.....	5,320	(NA)	87	1,744	2.65	.41	.77	(NA)	8,788	61	5.82
1960 ASM.....	5,113	(NA)	87	1,751	2.57	.39	.76	(NA)	8,556	60	5.59
1959 ASM.....	5,133	(NA)	87	1,796	2.49	.38	.74	(NA)	9,038	57	5.79
1958 Census.....	4,826	(NA)	82	1,838	2.42	.35	.71	(NA)	8,464	57	5.65
INDUSTRY 3259.--STRUCTURAL CLAY PRODUCTS, N.E.C.											
1972 Census.....	7,804	(NA)	83	1,985	3.67	.35	.70	(NA)	14,610	53	8.87
1971 ASM.....	7,705	16,730	80	2,113	3.32	.32	.64	705	16,115	48	9.60
1970 ASM.....	7,037	16,510	80	2,092	3.10	.34	.69	822	13,457	52	8.02
1969 ASM.....	6,515	13,370	85	2,060	2.94	.35	.69	720	11,970	54	6.85
1968 ASM.....	6,121	13,370	85	2,083	2.74	.34	.69	770	11,798	52	6.67
1967 Census.....	5,711	13,380	83	2,046	2.60	.32	.68	850	10,694	53	6.27
1966 ASM.....	5,299	(NA)	84	2,013	2.44	.36	.73	(NA)	9,389	56	5.54
1965 ASM.....	5,283	(NA)	85	2,030	2.43	.36	.73	(NA)	9,298	57	5.40
1964 ASM.....	5,413	10,670	83	2,184	2.33	.34	.70	710	9,954	54	5.49
1963 Census.....	5,085	9,570	85	2,040	2.30	.33	.72	730	8,897	57	5.13
1962 ASM.....	5,151	9,250	86	1,989	2.37	.31	.72	730	8,577	60	5.01
1961 ASM.....	4,817	(NA)	86	2,030	2.17	.30	.72	(NA)	8,226	59	4.69
1960 ASM.....	4,629	(NA)	86	1,989	2.17	.30	.72	(NA)	8,090	57	4.72
1959 ASM.....	4,481	(NA)	85	1,995	2.09	.29	.70	(NA)	7,761	58	4.60
1958 Census.....	4,104	(NA)	86	1,881	2.01	.28	.70	(NA)	6,970	59	4.32

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3241-- CEMENT, HYDRAULIC													
UNITED STATES.	199	172	30.1	350.7	24.4	49.9	276.5	1 157.7	657.8	1 797.9	179.9	32.6	812.3
NORTHEAST REGION	32	26	5.1	61.4	4.2	8.8	49.8	164.7	112.1	272.9	22.6	6.5	128.4
NEW ENGLAND DIVISION	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MAINE.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION	29	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA	19	17	3.3	38.3	2.8	5.8	32.0	103.8	69.3	172.1	8.2	3.8	77.5
NORTH CENTRAL REGION	54	48	8.7	103.3	7.1	14.7	81.7	334.6	192.3	516.4	51.2	10.4	277.8
EAST NORTH CENTRAL DIVISION.	31	26	4.9	59.7	3.9	8.4	46.3	188.9	114.0	295.9	29.0	6.6	174.8
OHIO	9	8	1.4	16.1	1.1	2.3	12.4	37.7	25.8	62.8	3.3	1.6	34.3
INDIANA.	5	4	.6	7.2	.5	1.0	5.3	33.1	20.4	51.1	3.0	1.6	34.7
ILLINOIS	4	3	.7	8.7	.6	1.3	7.6	22.3	12.1	33.8	13.9	.9	24.1
MICHIGAN	10	9	2.0	25.9	1.6	3.6	19.5	85.7	49.8	132.6	8.7	2.3	72.8
WISCONSIN.	3	2	.2	1.8	.1	.2	1.4	10.0	5.9	15.6	.1	.2	8.8
WEST NORTH CENTRAL DIVISION.	23	22	3.8	43.5	3.2	6.3	35.4	145.8	78.4	220.4	22.2	3.9	103.0
MINNESOTA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
IOWA	5	5	1.1	12.3	.9	1.9	10.4	37.7	21.3	57.9	(D)	1.1	32.6
MISSOURI	7	7	1.2	14.1	1.0	1.8	10.8	55.9	35.1	89.1	3.0	1.3	38.4
NORTH DAKOTA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
KANSAS	7	6	.8	9.3	.7	1.3	7.2	26.8	10.7	37.0	2.0	CC	(D)
SOUTH REGION	73	64	10.0	111.9	8.1	16.7	87.4	418.9	221.7	637.1	68.1	9.9	252.8
SOUTH ATLANTIC DIVISION.	23	17	3.0	35.0	2.5	5.4	29.2	142.3	74.5	215.1	19.1	3.0	72.7
MARYLAND	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	12.8
VIRGINIA	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST VIRGINIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
GEORGIA.	3	3	.4	4.9	.4	.8	4.0	16.1	11.6	27.3	(D)	.3	7.0
FLORIDA.	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
EAST SOUTH CENTRAL DIVISION.	21	19	2.8	32.0	2.3	4.6	26.3	99.1	57.5	156.0	15.7	2.7	62.9
KENTUCKY	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE.	7	6	.8	9.2	.7	1.5	7.9	30.3	14.4	45.0	3.4	.8	21.8
ALABAMA.	10	9	1.2	13.9	1.0	1.9	11.1	42.6	26.8	68.9	(D)	1.4	32.3
MISSISSIPPI.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION.	29	28	4.3	44.9	3.2	6.7	31.9	177.6	89.8	266.0	33.2	4.3	117.2
ARKANSAS	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
LOUISIANA.	4	4	.7	6.1	.5	1.1	4.5	15.7	20.8	36.6	(D)	.6	13.7
OKLAHOMA	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS.	20	19	2.8	29.7	2.2	4.5	21.4	121.3	54.9	175.6	19.8	2.9	76.6
WEST REGION.	40	34	6.2	74.1	5.0	9.8	57.7	239.4	131.7	371.6	38.1	5.8	153.4
MOUNTAIN DIVISION.	13	13	1.6	18.7	1.3	2.5	14.6	78.5	34.0	111.2	27.4	1.3	38.1
MONTANA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
COLORADO	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ARIZONA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
UTAH	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PACIFIC DIVISION	27	21	4.6	55.4	3.7	7.3	43.0	160.8	97.7	260.3	10.6	4.5	115.2
WASHINGTON	5	4	.4	5.0	.3	.6	3.6	17.7	14.7	32.3	.6	.5	9.7
OREGON	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA	18	13	3.7	44.8	3.0	5.9	35.5	130.4	72.3	204.0	7.9	3.6	95.4
HAWAII	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3241-02 WITHOUT A MINE OR QUARRY													
UNITED STATES.	67	40	6.0	67.8	4.8	10.0	53.4	217.6	163.6	374.9	24.4	(NA)	(NA)
NORTHEAST REGION	13	7	1.2	12.9	.9	1.8	10.1	39.1	29.6	68.5	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MAINE.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	19	13	1.6	18.8	1.3	2.7	14.4	54.7	50.4	100.7	4.7	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	14	9	1.0	12.5	.8	1.7	9.1	38.3	38.5	73.1	4.0	(NA)	(NA)
INDIANA.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	3	2	.2	1.8	.1	.2	1.4	10.0	5.9	15.6	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	5	4	.6	6.4	.5	1.0	5.3	16.4	11.9	27.6	.7	(NA)	(NA)
MINNESOTA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	25	16	2.7	30.1	2.2	4.7	24.4	102.9	65.5	167.0	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	11	5	1.1	13.9	1.0	2.1	12.2	47.7	25.0	72.2	(D)	(NA)	(NA)
WEST VIRGINIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	E1	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	6	4	.4	4.9	.4	.7	4.2	18.1	12.8	30.9	(D)	(NA)	(NA)
ALABAMA.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	8	7	1.2	11.2	.9	1.9	8.0	37.1	27.7	63.9	(D)	(NA)	(NA)
LOUISIANA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	5	4	.6	6.7	.5	1.1	4.6	21.1	14.5	35.4	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3241-- CEMENT, HYDRAULIC--CONTINUED													
3241-02 WITHOUT A MINE OR QUARRY--CON.													
WEST REGION.	10	4	.5	6.0	.4	.8	4.4	20.8	18.1	38.8	.4	(NA)	(NA)
PACIFIC DIVISION	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3241-11 WITH A MINE OR QUARRY													
UNITED STATES.	132	132	24.0	282.8	19.6	39.9	223.1	940.1	494.2	1 423.0	155.5	(NA)	(NA)
NORTHEAST REGION	19	19	4.0	48.5	3.3	7.0	39.7	125.6	82.5	204.4	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	19	19	4.0	48.5	3.3	7.0	39.7	125.6	82.5	204.4	(D)	(NA)	(NA)
NEW YORK	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	35	35	7.1	84.4	5.9	12.0	67.2	279.9	141.9	415.7	46.5	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	17	17	3.9	47.3	3.2	6.7	37.1	150.6	75.5	222.9	25.0	(NA)	(NA)
OHIO	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	18	18	3.3	37.2	2.7	5.3	30.1	129.3	66.4	192.8	21.5	(NA)	(NA)
IOWA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	7	7	1.2	14.1	1.0	1.8	10.8	55.9	35.1	89.1	(D)	(NA)	(NA)
NORTH DAKOTA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	48	48	7.3	81.8	5.9	12.0	62.9	316.0	156.2	470.1	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	12	12	1.9	21.1	1.6	3.3	17.0	94.6	49.5	142.9	(D)	(NA)	(NA)
MARYLAND	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	15	15	2.3	27.0	2.0	4.0	22.0	81.0	44.6	125.1	(D)	(NA)	(NA)
KENTUCKY	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	21	21	3.1	33.7	2.3	4.7	23.9	140.5	62.1	202.1	(D)	(NA)	(NA)
ARKANSAS	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	15	15	2.1	23.0	1.7	3.4	16.8	100.2	40.4	140.3	(D)	(NA)	(NA)
WEST REGION.	30	30	5.6	68.1	4.6	8.9	53.2	218.6	113.6	332.8	37.6	(NA)	(NA)
MOUNTAIN DIVISION.	12	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MONTANA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	18	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	13	13	3.6	44.5	3.0	5.8	35.2	129.4	71.6	202.4	(D)	(NA)	(NA)
HAWAII	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3251-- BRICK AND STRUCTURAL CLAY TILE													
UNITED STATES.	417	302	24.1	168.4	20.4	42.2	128.5	336.4	170.5	513.0	38.6	27.5	251.1
NORTHEAST REGION	58	40	2.7	22.5	2.3	5.1	18.2	38.4	19.7	59.5	2.2	3.6	35.8
NEW ENGLAND DIVISION	17	10	.5	4.1	.4	.9	3.1	6.8	3.9	11.6	.2	CC	(D)
CONNECTICUT.	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION	41	30	2.2	18.5	1.9	4.2	15.1	31.6	15.8	47.9	2.0	FF	(D)
NEW YORK	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PENNSYLVANIA	28	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION	113	77	5.5	39.9	4.8	9.5	31.4	69.9	35.7	108.2	4.7	6.7	60.6
EAST NORTH CENTRAL DIVISION.	78	53	4.2	30.5	3.6	7.1	24.3	53.2	26.1	80.9	3.1	FF	(D)
OHIO	45	31	2.4	17.8	2.0	4.2	14.2	34.1	15.9	51.2	2.1	3.0	30.7
INDIANA	14	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.2
ILLINOIS	14	11	.9	6.5	.8	1.3	5.2	9.3	4.6	14.1	.3	EE	(D)
WEST NORTH CENTRAL DIVISION.	35	24	1.4	9.4	1.2	2.4	7.1	16.7	9.7	27.3	1.6	EE	(D)
IOWA	8	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	3.8
MISSOURI	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEBRASKA	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
KANSAS	6	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION	194	157	13.5	88.7	11.4	24.0	65.5	193.8	97.7	293.9	22.5	15.0	136.7
SOUTH ATLANTIC DIVISION.	82	67	7.3	50.2	6.0	12.7	36.3	106.5	54.2	162.1	13.6	7.2	67.8
MARYLAND	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.2
VIRGINIA	13	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA	28	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH CAROLINA	16	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
GEORGIA.	10	7	2.1	15.7	1.8	3.8	11.3	33.9	16.1	50.6	4.6	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3251--BRICK AND STRUCTURAL CLAY TILE-- CONTINUED													
SOUTH REGION--CONTINUED													
EAST SOUTH CENTRAL DIVISION. . .	47	40	2.9	17.4	2.5	5.0	12.7	40.6	27.3	67.9	6.3	3.3	32.6
KENTUCKY	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA	16	13	.7	4.4	.6	1.2	3.2	9.6	5.9	15.3	1.1	1.2	12.3
MISSISSIPPI	16	14	1.0	6.2	.8	1.8	4.2	13.7	13.1	26.8	3.3	.9	7.3
WEST SOUTH CENTRAL DIVISION. . .	65	50	3.3	21.1	2.9	6.3	16.4	46.7	16.2	64.0	2.6	4.5	36.3
ARKANSAS	8	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
LOUISIANA E1	10	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	1.9
OKLAHOMA	9	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS	38	26	2.1	12.9	1.8	3.9	10.0	28.1	9.3	38.1	1.8	3.2	25.1
WEST REGION.	52	28	2.3	17.2	1.9	3.8	13.4	34.3	17.4	51.3	9.3	2.1	18.0
MOUNTAIN DIVISION.	22	14	1.4	9.7	1.2	2.2	7.6	19.7	11.3	30.9	8.5	1.1	9.1
COLORADO	8	6	.8	5.2	.6	1.1	3.9	10.4	4.8	15.1	(D)	CC	(D)
UTAH	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PACIFIC DIVISION	30	14	.9	7.3	.8	1.5	5.8	14.6	6.1	20.4	.8	1.0	8.9
WASHINGTON	7	3	.2	1.3	.2	.3	1.1	2.8	1.4	4.2	(D)	(NA)	(NA)
CALIFORNIA	17	10	.7	5.8	.6	1.1	4.5	11.2	4.4	15.4	.7	.7	6.1
3251-02 WITHOUT A MINE OR QUARRY													
UNITED STATES.	211	104	8.0	55.1	6.8	13.7	42.3	115.8	57.4	174.9	18.8	(NA)	(NA)
NORTHEAST REGION. E1	26	9	.7	5.1	.6	1.3	4.2	9.6	5.8	15.6	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . E1	18	8	.6	4.8	.5	1.1	3.9	8.9	5.3	14.4	(D)	(NA)	(NA)
PENNSYLVANIA	11	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. E1	66	32	2.1	15.4	1.9	3.7	12.4	29.0	14.4	44.5	1.9	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . E1	49	26	1.9	13.5	1.6	3.2	10.9	25.2	12.1	38.2	1.7	(NA)	(NA)
OHIO	31	17	1.1	8.2	1.0	1.9	6.7	18.2	8.7	27.6	1.3	(NA)	(NA)
INDIANA E2	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS E1	6	4	.3	2.2	.2	.4	1.6	2.8	1.0	3.8	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . E2	17	6	.3	1.9	.2	.5	1.4	3.8	2.3	6.3	.2	(NA)	(NA)
SOUTH REGION.	85	49	3.8	25.5	3.2	6.7	18.2	57.5	26.2	84.5	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . .	35	20	2.0	14.5	1.7	3.5	10.1	34.7	17.2	52.0	(D)	(NA)	(NA)
VIRGINIA	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	8	6	.6	4.6	.5	1.1	2.5	11.6	5.2	16.8	(D)	(NA)	(NA)
GEORGIA	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	18	12	.8	4.8	.7	1.4	3.5	10.1	4.7	15.3	(D)	(NA)	(NA)
KENTUCKY	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	7	5	.3	2.3	.3	.6	1.6	4.9	2.4	7.4	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E2	32	17	1.0	6.1	.8	1.7	4.6	12.7	4.2	17.2	(D)	(NA)	(NA)
ARKANSAS	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS E1	21	9	.6	3.7	.5	1.0	2.8	8.0	2.7	10.9	(D)	(NA)	(NA)
WEST REGION.	34	14	1.3	9.2	1.1	2.1	7.5	19.7	11.0	30.3	8.4	(NA)	(NA)
MOUNTAIN DIVISION.	16	9	1.0	7.0	.9	1.6	5.7	15.4	8.9	24.0	(D)	(NA)	(NA)
COLORADO	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E1	18	5	.3	2.2	.3	.5	1.8	4.2	2.2	6.3	(D)	(NA)	(NA)
CALIFORNIA E1	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3251-11 WITH A MINE OR QUARRY													
UNITED STATES.	206	198	16.1	113.3	13.6	28.5	86.3	220.6	113.1	338.1	19.9	(NA)	(NA)
NORTHEAST REGION.	32	31	2.0	17.5	1.7	3.8	14.0	28.8	13.9	44.0	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	9	9	.4	3.8	.4	.8	2.9	6.1	3.4	10.4	(D)	(NA)	(NA)
CONNECTICUT	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . .	23	22	1.6	13.7	1.4	3.0	11.2	22.8	10.5	33.6	(D)	(NA)	(NA)
NEW YORK	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	17	16	1.2	9.9	1.0	2.3	8.1	15.6	7.4	23.3	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	47	45	3.4	24.5	2.9	5.8	19.0	40.8	21.4	63.7	2.7	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	29	27	2.3	17.0	2.0	3.9	13.4	27.9	14.0	42.7	1.3	(NA)	(NA)
OHIO	14	14	1.3	9.6	1.1	2.3	7.5	15.9	7.2	23.6	.8	(NA)	(NA)
INDIANA	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	8	7	.6	4.4	.5	.9	3.6	6.5	3.5	10.3	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	18	18	1.1	7.5	.9	1.9	5.7	12.9	7.4	21.0	1.4	(NA)	(NA)
IOWA	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	109	108	9.7	63.3	8.2	17.3	47.3	136.2	71.5	209.4	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	47	47	5.2	35.7	4.4	9.1	26.2	71.8	37.0	110.1	(D)	(NA)	(NA)
MARYLAND	5	5	.4	2.8	.3	.7	2.4	5.8	2.3	8.2	(D)	(NA)	(NA)
VIRGINIA	8	8	.8	4.6	.6	1.4	3.8	10.6	4.7	15.3	(D)	(NA)	(NA)
NORTH CAROLINA	20	20	2.0	13.1	1.6	3.3	9.5	24.2	15.4	40.1	(D)	(NA)	(NA)
SOUTH CAROLINA	8	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3251-- BRICK AND STRUCTURAL CLAY TILE-- CONTINUED													
3251-11 WITH A MINE OR QUARRY--CONTINUED													
SOUTH REGION--CONTINUED													
EAST SOUTH CENTRAL DIVISION. . .	29	28	2.1	12.5	1.8	3.6	9.2	30.4	22.5	52.6	(D)	(NA)	(NA)
KENTUCKY	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	11	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	9	9	.6	3.9	.5	1.2	2.6	8.8	10.7	19.4	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	33	33	2.3	15.0	2.0	4.5	11.9	34.0	12.0	46.8	(D)	(NA)	(NA)
ARKANSAS	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA	5	5	.2	1.3	.2	.4	1.0	2.6	1.6	4.2	(D)	(NA)	(NA)
OKLAHOMA	6	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	17	17	1.4	9.2	1.3	2.8	7.2	20.2	6.6	27.2	(D)	(NA)	(NA)
WEST REGION.	18	14	1.0	8.0	.8	1.6	5.9	14.6	6.3	21.0	.9	(NA)	(NA)
MOUNTAIN DIVISION.	6	5	.4	2.7	.3	.6	1.9	4.3	2.4	6.9	(D)	(NA)	(NA)
COLORADO	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	12	9	.6	5.3	.5	1.0	4.0	10.3	3.9	14.1	(D)	(NA)	(NA)
CALIFORNIA	9	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3253-- CERAMIC WALL AND FLOOR TILE													
UNITED STATES.	83	56	8.3	58.5	6.8	14.0	43.4	112.3	65.8	175.6	7.6	10.6	105.9
NORTHEAST REGION	18	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	29.3
MIDDLE ATLANTIC DIVISION	15	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEW JERSEY	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.4
PENNSYLVANIA	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION	12	8	1.3	9.7	1.1	2.2	7.2	18.4	8.2	27.0	1.2	2.3	22.6
EAST NORTH CENTRAL DIVISION. . .	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION	31	27	3.9	25.3	3.2	6.7	19.0	50.8	36.9	85.7	3.6	3.6	33.2
SOUTH ATLANTIC DIVISION.	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	10.0
FLORIDA.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
EAST SOUTH CENTRAL DIVISION. . .	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	11.9
KENTUCKY	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ALABAMA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSISSIPPI.	E1	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . .	15	14	1.6	9.9	1.2	2.3	6.3	19.5	17.9	35.0	1.2	EE	(D)
ARKANSAS	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS.	13	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	E1	22	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	20.8
PACIFIC DIVISION	E1	20	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	E1	15	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	20.6
3255-- CLAY REFRACTORIES													
UNITED STATES.	157	102	11.3	100.8	8.5	16.7	66.5	202.6	132.2	337.4	10.8	12.6	151.4
NORTHEAST REGION	46	31	2.9	27.1	2.1	4.2	17.1	52.4	33.3	85.7	2.5	3.1	35.4
MIDDLE ATLANTIC DIVISION	44	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA	38	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	31.3
NORTH CENTRAL REGION	57	38	5.2	47.3	3.9	7.9	31.7	91.8	64.6	156.2	5.1	6.0	73.3
EAST NORTH CENTRAL DIVISION. . .	44	30	2.0	16.3	1.7	3.3	12.7	36.1	23.5	60.0	2.2	2.1	23.9
OHIO	38	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION. . .	13	8	3.2	31.1	2.3	4.6	19.0	55.7	41.1	96.2	2.9	3.9	49.4
MISSOURI	11	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	49.4
SOUTH REGION	36	23	2.8	22.7	2.1	4.0	15.4	50.1	28.8	81.2	2.4	3.0	35.6
SOUTH ATLANTIC DIVISION.	13	9	1.8	14.9	1.3	2.4	9.2	34.9	18.5	53.7	1.5	1.8	24.0
MARYLAND	3	3	.3	2.5	.2	.5	2.0	6.2	4.1	10.4	.4	.4	6.0
WEST VIRGINIA.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
GEORGIA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
EAST SOUTH CENTRAL DIVISION. . .	15	11	.7	6.2	.6	1.2	5.0	11.3	7.8	21.3	.6	.8	8.3
KENTUCKY	E1	5	.3	2.3	.2	.4	1.8	3.5	2.9	6.8	.3	CC	(D)
ALABAMA.	7	5	.4	3.8	.3	.7	3.0	7.2	4.6	13.6	.3	.3	3.5
WEST SOUTH CENTRAL DIVISION. . .	8	3	.3	1.7	.2	.4	1.3	3.9	2.5	6.3	.2	.4	3.4
TEXAS.	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	18	10	.4	3.7	.3	.6	2.4	8.3	5.5	14.3	.8	.5	7.2
MOUNTAIN DIVISION.	5	5	.2	1.2	.1	.2	.7	2.3	1.4	3.6	.1	(NA)	(NA)
PACIFIC DIVISION	E1	13	.3	2.4	.2	.4	1.6	6.0	4.2	10.7	.7	.3	6.2
CALIFORNIA	E1	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
1259-- STRUCTURAL CLAY PRODUCTS, NEC													
UNITED STATES.	119	70	8.2	64.0	6.8	13.5	49.5	119.8	62.6	180.7	7.0	9.7	103.4
NORTHEAST REGION.	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	8.5
MIDDLE ATLANTIC DIVISION.	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	8.5
PENNSYLVANIA.	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION.	59	35	3.8	31.3	3.1	6.0	23.6	52.2	25.7	77.0	2.3	5.3	54.2
EAST NORTH CENTRAL DIVISION.	47	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	41.5
OHIO.	25	18	2.1	16.6	1.8	3.3	12.6	27.0	12.2	38.4	1.4	2.6	24.8
INDIANA.	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.3
ILLINOIS.	9	5	.3	3.0	.3	.5	2.3	6.4	3.7	9.3	(D)	.6	6.6
WEST NORTH CENTRAL DIVISION.	12	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	12.7
IOWA.	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KANSAS.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION.	24	17	2.4	16.6	1.9	4.1	12.7	31.7	21.0	52.9	3.2	2.4	23.7
SOUTH ATLANTIC DIVISION.	12	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	11.0
NORTH CAROLINA.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
GEORGIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
FLORIDA.	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	6.6
ALABAMA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSISSIPPI.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	6	5	.7	5.0	.6	1.2	3.8	8.4	4.2	12.7	.5	BB	(D)
TEXAS.	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	25	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	17.0
MOUNTAIN DIVISION.	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	17	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA.	12	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3259-02 WITHOUT A MINE OR QUARRY													
UNITED STATES.	85	45	5.3	40.3	4.4	8.8	31.6	77.8	43.0	119.6	5.4	(NA)	(NA)
NORTHEAST REGION.	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	38	19	2.2	17.9	1.8	3.5	13.9	31.0	15.3	45.4	1.5	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	32	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.	17	12	1.4	11.3	1.2	2.3	9.0	19.8	9.0	28.1	1.2	(NA)	(NA)
INDIANA.	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	19	13	1.8	12.8	1.5	3.2	9.9	22.9	17.5	40.6	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	20	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION. E1	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	13	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3259-11 WITH A MINE OR QUARRY													
UNITED STATES.	34	25	2.9	23.7	2.4	4.7	17.9	42.0	19.6	61.1	1.6	(NA)	(NA)
NORTHEAST REGION.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	21	16	1.6	13.4	1.3	2.5	9.7	21.1	10.4	31.6	.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	15	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.	8	6	.7	5.3	.6	1.0	3.6	7.2	3.2	10.3	.3	(NA)	(NA)
ILLINOIS.	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA.	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	5	4	.5	3.8	.4	.9	2.8	8.8	3.5	12.2	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes on next page.

(Footnotes for table 2)

E1--10 to 19 percent	E3--30 to 39 percent	E5--50 to 59 percent	E7--70 to 79 percent	E9--90 to 99 percent
E2--20 to 29 percent	E4--40 to 49 percent	E6--60 to 69 percent	E8--80 to 89 percent	E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

(See appendix, Explanation of terms)

Item	Cement, hydraulic (SIC 3241)			Brick and structural clay tile (SIC 3251)		
	Total	Establishments without mining or quarrying activity (SIC 3241-02)	Establishments with mining or quarrying activity (SIC 3241-11)	Total	Establishments without mining or quarrying activity (SIC 3251-02)	Establishments with mining or quarrying activity (SIC 3251-11)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT .	99	97	99	98	96	99
COVERAGE RATIO ² DO .	99	(NA)	(NA)	99	(NA)	(NA)
ESTABLISHMENTS, TOTAL NUMBER .	199	67	132	417	211	206
WITH 1 TO 19 EMPLOYEES DO .	27	27	115	107	8	8
WITH 20 TO 99 EMPLOYEES DO .	32	14	18	238	87	151
WITH 100 EMPLOYEES OR MORE DO .	140	26	114	64	17	47
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000 .	30.1	6.0	24.0	24.1	8.0	16.1
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS .	350.7	67.8	282.8	168.4	55.1	113.3
PRODUCTION WORKERS:						
AVERAGE FOR YEAR 1,000 .	24.4	4.8	19.6	20.4	6.8	13.6
MARCH DO .	23.7	4.7	19.1	19.7	6.6	13.0
MAY DO .	24.4	4.8	19.6	20.4	6.8	13.6
AUGUST DO .	25.2	5.0	20.2	21.2	7.0	14.2
NOVEMBER DO .	24.4	4.8	19.6	20.5	6.7	13.8
MAN-HOURS MILLIONS .	49.9	10.0	39.9	42.2	13.7	28.5
JANUARY-MARCH DO .	12.2	2.4	9.8	9.8	3.2	6.6
APRIL-JUNE DO .	12.6	2.5	10.1	10.7	3.5	7.2
JULY-SEPTEMBER DO .	12.7	2.6	10.2	11.1	3.6	7.5
OCTOBER-DECEMBER DO .	12.4	2.5	9.9	10.7	3.5	7.2
WAGES MILLION DOLLARS .	276.5	53.4	223.1	128.5	42.3	86.3
COST OF MATERIALS, ETC., TOTAL DO .	657.8	163.6	494.2	170.5	57.4	113.1
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO .	349.2	100.3	249.0	84.9	31.9	53.0
COST OF REALES DO .	15.4	5.2	10.2	26.8	6.6	20.1
FUELS CONSUMED DO .	190.6	33.0	157.6	43.5	13.8	29.6
PURCHASED ELECTRIC ENERGY DO .	91.4	19.1	72.3	12.3	4.2	8.0
CONTRACT WORK DO .	11.3	6.1	5.2	3.1	.8	2.3
VALUE OF SHIPMENTS, INCLUDING REALES DO .	1 797.9	374.9	1 423.0	513.0	174.9	338.1
VALUE OF REALES DO .	17.3	4.8	12.4	32.9	8.6	24.3
VALUE ADDED BY MANUFACTURE DO .	1 157.7	217.6	940.1	336.4	115.8	220.6
MANUFACTURERS' INVENTORIES:						
BEGINNING OF YEAR, TOTAL DO .	218.5	49.8	168.7	58.6	23.2	35.4
FINISHED PRODUCTS DO .	69.1	17.0	52.1	43.8	17.8	26.0
WORK IN PROCESS DO .	34.0	5.8	28.2	3.4	1.1	2.2
MATERIALS, SUPPLIES, FUEL, ETC. DO .	115.3	27.0	88.3	11.4	4.3	7.1
END OF YEAR, TOTAL DO .	239.3	54.6	184.7	53.0	21.6	31.4
FINISHED PRODUCTS DO .	81.4	20.2	61.2	37.3	16.0	21.3
WORK IN PROCESS DO .	39.3	8.8	30.5	7.7	1.2	2.5
MATERIALS, SUPPLIES, FUEL, ETC. DO .	118.5	25.5	93.0	12.0	4.4	7.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO .	182.2	24.5	157.7	40.7	19.3	21.4
NEW PLANT AND EQUIPMENT, TOTAL DO .	179.9	24.4	155.5	38.6	18.8	19.9
NEW STRUCTURES AND ADDITIONS TO PLANT DO .	34.6	3.3	31.3	9.3	4.3	5.0
NEW MACHINERY AND EQUIPMENT DO .	145.3	21.1	124.2	29.3	14.4	14.9
USED PLANT AND EQUIPMENT DO .	2.3	.1	2.2	2.1	.6	1.5

See footnotes on next page.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3241-- CEMENT, HYDRAULIC											
ESTABLISHMENTS, TOTAL.	199	30.1	350.7	24.4	49.9	276.5	1 157.7	657.8	1 797.9	179.9	239.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	17	(Z)	.4	(Z)	.1	.3	1.2	.7	1.9	13.6	.3
5 TO 9 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	8	.1	.8	.1	.2	.6	6.5	4.0	10.4	(D)	1.3
20 TO 49 EMPLOYEES	3	.1	1.2	.1	.1	.7	3.8	5.0	8.5	(D)	1.4
50 TO 99 EMPLOYEES	29	2.3	27.1	1.8	3.8	21.3	98.9	66.0	163.0	(D)	23.8
100 TO 249 EMPLOYEES	112	17.9	206.9	14.7	29.9	165.2	705.5	404.9	1 098.3	97.7	134.2
250 TO 499 EMPLOYEES	26	9.6	114.3	7.6	15.9	88.4	341.8	177.1	515.7	68.5	78.5
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	11	(Z)	.2	(Z)	(Z)	.2	.7	.4	1.2	.1	.2
3241-02 WITHOUT A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	67	6.0	67.8	4.8	10.0	53.4	217.6	163.6	374.9	24.4	54.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	17	(Z)	.4	(Z)	.1	.3	1.2	.7	1.9	5.6	.3
5 TO 9 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	8	.1	.8	.1	.2	.6	6.5	4.0	10.4	(D)	1.3
20 TO 49 EMPLOYEES	3	.1	1.2	.1	.1	.7	3.8	5.0	8.5	(D)	1.4
50 TO 99 EMPLOYEES	11	.8	9.9	.7	1.5	8.3	31.9	25.8	57.8	(D)	8.8
100 TO 249 EMPLOYEES	21	3.4	38.3	2.7	5.4	30.1	117.9	97.2	210.8	11.0	29.3
250 TO 499 EMPLOYEES	5	1.6	17.2	1.2	2.7	13.5	56.4	30.8	85.5	7.7	13.5
ESTABS. COVERED BY ADMIN. RECORD ¹	11	(Z)	.2	(Z)	(Z)	.2	.7	.4	1.2	.1	.2
3241-11 WITH A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	132	24.0	282.8	19.6	39.9	223.1	940.1	494.2	1 423.0	155.5	184.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
50 TO 99 EMPLOYEES	18	1.4	17.2	1.1	2.3	13.0	67.0	40.2	105.3	8.0	14.9
100 TO 249 EMPLOYEES	91	14.5	168.6	12.0	24.5	135.1	587.6	307.7	887.5	86.6	104.8
250 TO 499 EMPLOYEES	21	8.0	97.1	6.4	13.2	74.9	285.4	146.4	430.2	60.8	65.0
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3251-- BRICK AND STRUCTURAL CLAY TILE											
ESTABLISHMENTS, TOTAL.	417	24.1	168.4	20.4	42.2	128.5	336.4	170.5	513.0	38.6	53.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	60	.1	.6	.1	.2	.5	1.5	.9	2.5	.1	.4
5 TO 9 EMPLOYEES	22	.1	.9	.1	.2	.7	2.5	1.4	3.9	.5	.6
10 TO 19 EMPLOYEES	33	.5	3.1	.4	.8	2.3	5.4	3.5	8.9	.9	1.4
20 TO 49 EMPLOYEES	120	4.5	30.3	3.8	7.8	22.8	58.9	35.9	96.3	6.0	8.5
50 TO 99 EMPLOYEES	118	8.1	58.4	7.0	14.4	45.3	109.2	57.7	169.1	9.6	16.7
100 TO 249 EMPLOYEES	59	8.7	61.1	7.3	15.2	46.4	128.9	58.2	189.0	17.7	21.3
250 TO 499 EMPLOYEES	3	2.1	14.0	1.6	3.5	10.5	30.1	12.9	43.4	3.8	4.0
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	63	.2	1.3	.2	.4	1.0	3.6	2.2	5.7	.3	.9
3251-02 WITHOUT A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	211	8.0	55.1	6.8	13.7	42.3	115.8	57.4	174.9	18.8	21.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	60	.1	.6	.1	.2	.5	1.5	.9	2.5	.1	.4
5 TO 9 EMPLOYEES	21	.5	3.3	.4	.8	2.3	6.9	4.0	10.8	1.3	1.8
10 TO 19 EMPLOYEES	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	52	1.9	13.6	1.6	3.5	10.2	27.1	14.1	41.4	2.0	3.7
50 TO 99 EMPLOYEES	35	2.5	17.2	2.2	4.3	13.2	30.1	15.6	46.3	2.8	5.6
100 TO 249 EMPLOYEES	15	3.0	20.5	2.5	5.0	16.0	50.3	22.8	73.8	12.0	10.1
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	63	.2	1.3	.2	.4	1.0	3.6	2.2	5.7	.3	.9
3251-11 WITH A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	206	16.1	113.3	13.6	28.5	86.3	220.6	113.1	338.1	19.9	31.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES	1	.1	.7	.1	.2	.6	.9	1.0	2.0	.1	.3
10 TO 19 EMPLOYEES	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	68	2.5	16.7	2.2	4.3	12.6	31.9	21.8	54.9	4.0	4.8
50 TO 99 EMPLOYEES	83	5.7	41.3	4.8	10.1	32.2	79.1	42.2	122.8	6.8	11.1
100 TO 249 EMPLOYEES	44	7.8	54.5	6.6	13.8	40.9	108.7	48.3	158.6	8.9	15.3
250 TO 499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3253-- CERAMIC WALL AND FLOOR TILE											
ESTABLISHMENTS, TOTAL.	83	8.3	58.5	6.8	14.0	43.4	112.3	65.8	175.6	7.6	35.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	14	(Z)	.1	(Z)	(Z)	.1	.3	.1	.4	(Z)	.1
5 TO 9 EMPLOYEES E8	7	(Z)	.3	(Z)	.1	.2	.6	.2	.8	(Z)	.2
10 TO 19 EMPLOYEES	6	.7	4.4	.6	1.0	2.9	7.4	3.1	10.4	.7	2.6
20 TO 49 EMPLOYEES E2	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 TO 99 EMPLOYEES E1	12	.9	5.8	.7	1.5	4.3	10.3	4.2	14.3	1.7	2.8
100 TO 249 EMPLOYEES	23	3.8	26.4	3.2	6.7	20.1	51.9	30.3	82.2	3.0	16.1
250 TO 499 EMPLOYEES	3	2.9	21.5	2.3	4.7	15.6	41.9	27.8	67.6	2.1	13.2
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	14	(Z)	.3	(Z)	.1	.2	.5	.2	.7	(Z)	.2
3255-- CLAY REFRACTORIES											
ESTABLISHMENTS, TOTAL.	157	11.3	100.8	8.5	16.7	66.5	202.6	132.2	337.4	10.8	83.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	22	(Z)	.3	(Z)	(Z)	.2	.5	.4	1.1	.1	.3
5 TO 9 EMPLOYEES E4	12	.1	.7	.1	.1	.4	1.5	2.0	3.4	.1	.5
10 TO 19 EMPLOYEES	21	.3	2.5	.2	.5	1.7	5.3	4.7	10.2	.9	2.1
20 TO 49 EMPLOYEES	43	1.4	11.7	1.1	2.2	7.9	30.4	21.0	52.0	1.6	9.9
50 TO 99 EMPLOYEES	31	2.1	17.9	1.8	3.5	14.4	38.0	23.7	62.3	2.5	15.3
100 TO 249 EMPLOYEES	21	3.2	28.4	2.7	5.3	21.5	55.7	32.8	90.4	3.2	23.3
250 TO 499 EMPLOYEES	4	1.2	12.0	.8	1.9	6.8	27.0	19.2	45.5	.9	11.1
500 TO 999 EMPLOYEES	2	2.9	27.4	1.8	3.2	13.7	44.2	28.2	72.4	1.6	21.4
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	18	.1	.4	(Z)	.1	.3	1.0	.6	1.5	.1	.4
3259-- STRUCTURAL CLAY PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL.	119	8.2	64.0	6.8	13.5	49.5	119.8	62.6	180.7	7.0	32.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	26	(Z)	.3	(Z)	.1	.2	.5	.3	.9	(Z)	.2
5 TO 9 EMPLOYEES E5	13	.1	.6	.1	.1	.5	.9	.7	1.6	.1	.3
10 TO 19 EMPLOYEES	10	.2	1.2	.1	.3	.8	1.7	1.5	3.2	.1	.4
20 TO 49 EMPLOYEES	20	.7	4.9	.5	.9	3.5	8.8	6.8	15.5	.3	1.7
50 TO 99 EMPLOYEES	20	1.4	9.3	1.2	2.3	7.4	17.5	9.5	26.1	1.7	5.6
100 TO 249 EMPLOYEES	24	3.9	30.4	3.2	6.5	23.4	54.9	29.8	83.6	3.6	16.0
250 TO 499 EMPLOYEES	6	2.0	17.2	1.7	3.4	13.7	35.5	14.0	49.9	1.2	8.7
ESTABS. COVERED BY ADMIN. RECORD ¹	25	.1	.5	.1	.1	.4	1.0	.5	1.5	(Z)	.3
3259-02 WITHOUT A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	85	5.3	40.3	4.4	8.8	31.6	77.8	43.0	119.6	5.4	20.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	25	.2	1.3	.1	.3	.9	2.0	1.3	3.4	.1	.5
5 TO 9 EMPLOYEES E7	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	13	.4	2.7	.3	.5	2.0	5.7	4.6	10.3	.2	.9
50 TO 99 EMPLOYEES	13	1.0	6.7	.8	1.5	5.2	13.0	7.5	19.4	1.6	4.4
100 TO 249 EMPLOYEES	15	3.8	29.7	3.1	6.5	23.4	57.2	29.6	86.5	3.5	14.4
250 TO 499 EMPLOYEES	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹	25	.1	.5	.1	.1	.4	1.0	.5	1.5	(Z)	.3
3259-11 WITH A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	34	2.9	23.7	2.4	4.7	17.9	42.0	19.6	61.1	1.6	12.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	1	.1	.9	.1	.2	.6	1.1	1.3	2.3	.1	.4
5 TO 9 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	7	.3	2.2	.2	.4	1.5	3.1	2.1	5.1	.1	.8
50 TO 99 EMPLOYEES	7	.4	2.7	.3	.8	2.1	4.4	2.1	6.6	.1	1.2
100 TO 249 EMPLOYEES	9	2.1	17.9	1.8	3.4	13.7	33.3	14.1	47.0	1.3	10.2
250 TO 499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 95 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3241	CEMENT, HYDRAULIC										
	ENTIRE INDUSTRY	199	30.1	350.7	24.4	49.9	276.5	1 157.7	657.8	1 797.9	179.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	197	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3251	BRICK AND STRUCTURAL CLAY TILE										
	ENTIRE INDUSTRY	417	24.1	168.4	20.4	42.2	128.5	336.4	170.5	513.0	38.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	409	23.2	162.1	19.7	40.9	123.5	323.3	164.8	494.8	38.0
32511	BRICK, EXCEPT CERAMIC GLAZED AND REFRACTORY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	296	22.0	154.7	18.6	38.5	118.2	311.6	157.8	475.6	36.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	282	20.6	144.7	17.5	36.5	110.6	292.5	148.9	447.8	35.3
32512	GLAZED BRICK AND STRUCTURAL HOLLOW TILE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	11	1.0	6.9	.8	1.9	5.2	12.0	5.0	17.1	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3253	CERAMIC WALL AND FLOOR TILE										
	ENTIRE INDUSTRY	83	8.3	58.5	6.8	14.0	43.4	112.3	65.8	175.6	7.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	79	7.9	56.4	6.6	13.6	41.9	108.5	64.1	170.3	7.5
3255	CLAY REFRACTORIES										
	ENTIRE INDUSTRY	157	11.3	100.8	8.5	16.7	66.5	202.6	132.2	337.4	10.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	143	8.8	79.6	6.9	13.7	55.5	155.3	102.4	261.3	9.3
3259	STRUCTURAL CLAY PRODUCTS, NEC										
	ENTIRE INDUSTRY	119	8.2	64.0	6.8	13.5	49.5	119.8	62.6	180.7	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	113	7.5	57.9	6.2	12.4	44.8	110.0	57.9	165.4	6.5
32591	VITRIFIED CLAY SEWER PIPE AND FITTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	43	6.7	53.1	5.5	11.3	42.0	101.0	53.2	152.6	6.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	35	5.7	45.2	4.7	9.7	35.8	88.0	45.3	131.0	5.8
32592	OTHER STRUCTURAL CLAY PRODUCTS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	34	1.2	8.9	1.0	1.9	6.0	15.4	7.3	22.7	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3241	Cement, hydraulic.....1972..	1,797.7	1,756.1	21.0	20.8	99	1,770.0	1,756.1	13.9	99
	.....1967..	1,246.5	1,217.4	8.3	20.8	99	1,221.7	1,217.4	4.3	99
3251	Brick and structural clay tile.....1972..	513.0	468.2	10.6	34.2	98	471.3	468.2	3.1	99
	.....1967..	362.0	340.0	7.6	14.4	98	343.9	340.0	3.9	99
3253	Ceramic wall and floor tile.....1972..	175.6	150.8	3.5	21.3	98	157.9	150.8	7.1	96
	.....1967..	160.5	133.3	9.2	18.0	93	134.8	133.3	1.5	99
3255	Clay refractories.....1972..	337.4	278.7	42.5	16.2	87	302.2	278.7	23.5	92
	.....1967..	246.1	216.5	19.6	10.0	92	235.3	216.5	18.8	92
3259	Structural clay products, n.e.c.....1972..	180.7	162.7	8.0	10.0	95	169.3	162.7	6.6	96
	.....1967..	152.9	131.8	13.2	7.9	91	137.1	131.8	5.3	96

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Cement, hydraulic (SIC 3241)	Brick and structural clay tile (SIC 3251)	Ceramic wall and floor tile (SIC 3253)	Clay refrac- tories (SIC 3255)	Structural clay products, n.e.c. (SIC 3259)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	1,797.9	513.0	175.6	337.4	180.7	(X)
3241-	Cement, hydraulic.....	1,770.0	1,756.1	-	-	-	-	13.9
3251-	Brick and structural clay tile...	471.3	(under 2)	468.2	(under 2)	(under 2)	.9	(under 2)
32511	Brick, except ceramic glazed and refractory.....	431.3	-	429.3	(under 2)	(under 2)	(under 2)	(under 2)
32512	Glazed brick and structural hollow tile.....	18.5	(under 2)	17.4	(under 2)	-	(under 2)	-
32510	Brick and structural clay tile, n.s.k.....	21.5	-	21.5	-	-	-	-
3253-	Ceramic wall and floor tile.....	157.9	-	(under 2)	150.8	-	(under 2)	(over 2)
3255-	Clay refractories.....	302.2	-	2.1	-	278.7	2.1	19.3
3259-	Structural clay products, n.e.c..	169.3	-	4.8	-	-	162.7	1.8
32591	Vitrified clay sewer pipe and fittings.....	134.7	-	(over 2)	-	-	131.5	(under 2)
32592	Other structural clay products, n.e.c.....	28.8	-	(over 2)	-	-	25.4	(under 2)
32590	Structural clay products, n.s.k.....	5.8	-	-	-	-	5.8	-

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 5A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Cement, hydraulic (SIC 3241)	Brick and structural clay tile (SIC 3251)	Ceramic wall and floor tile (SIC 3253)	Clay refractories (SIC 3255)	Structural clay products, n.e.c. (SIC 3259)	Other industries
	Shipments and miscellaneous receipts--Continued							
	Other product shipments by 4-digit product group:							
1422-	Crushed and broken limestone...	(X)	4.5	-	-	-	-	(X)
1442-	Construction sand and gravel...	(X)	(2-5)	-	-	-	-	(X)
1459-	Clay and related minerals, n.e.c.....	(X)	(under 2)	-	-	-	-	(X)
3079-	Miscellaneous plastics products	(X)	-	-	-	-	(over 2)	(X)
3271-	Concrete block and brick.....	(X)	(under 2)	1.4	-	-	-	(X)
3273-	Ready-mixed concrete.....	(X)	(over 2)	-	-	-	-	(X)
3292-	Asbestos products.....	(X)	-	-	(under 2)	-	-	(X)
3295-	Minerals, ground or treated...	(X)	3.7	-	-	1.8	-	(X)
3296-	Mineral wool.....	(X)	-	-	-	(over 2)	-	(X)
3297-	Nonclay refractories.....	(X)	-	-	-	31.4	(under 2)	(X)
	Miscellaneous receipts.....	(X)	20.8	34.2	21.3	16.2	10.0	(X)
93000	Contract work.....	(X)	-	-	(under 2)	1.3	(under 2)	(X)
99989	Resales.....	(X)	17.3	32.9	20.9	11.0	(over 2)	(X)
99980	Other miscellaneous receipts...	(X)	3.5	1.3	(under 2)	3.9	-	(X)
	Listing of the other industries with over \$2 million receipts of the primary products							
3241-	2441 Nailed wood boxes and shooks.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
	2812 Alkalies and chlorine.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
	3273 Ready-mixed concrete.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
3253-	3263 Fine earthenware food utensils.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
3255-	3297 Nonclay refractories.....	(X)	(X)	(X)	(X)	(X)	(X)	10.4
	3356 Nonferrous rolling and drawing, n.e.c.....	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972			1967		
		Production for all purposes (quantity)	Total product shipments including interplant transfers		Production for all purposes (quantity) ¹	Total product shipments including interplant transfers	
			Quantity	Value		Quantity ¹	Value
		(million s. tons)	(million s. tons)	(million dollars)	(million s. tons)	(million s. tons)	(million dollars)
3241- --	CEMENT, HYDRAULIC, TOTAL.....	(X)	(X)	1,770.0	(X)	(X)	1,221.7
32410 11	Portland cement.....	76.1	76.3	1,621.0	68.7	68.0	1,151.9
32410 31	Prepared or mixed hydraulic and masonry cements other than special portlands.....	4.6	4.1	121.6	3.5	2.9	66.4
32410 51	Natural, masonry-natural pozzolan (slag, lime), and hydraulic lime cements.....	.3	.3	11.9	(D)	(D)	(D)
32410 00	Cement hydraulic, n.s.k., for companies with 10 employees or more (see note.).....	(X)	(X)	14.3	(X)	(X)	(D)
32410 02	Cement hydraulic, n.s.k., for companies with less than 10 employees. (See note.).....	(X)	(X)	1.2	(X)	(X)	.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3251- --	BRICK AND STRUCTURAL CLAY TILE, TOTAL.....	.....	(X)	(X)	471.3	(X)	(X)	343.9
32511 --	Brick, except ceramic glazed and refractory.....	.....	(X)	(X)	431.4	(X)	(X)	298.1
32511 11	Building or common, and face (2-1/4 in. x 3-5/8 in. x 7-5/8 in. equivalent).....	Mil. bricks.	8,634.4	8,828.8	426.6	7,536.2	7,394.9	294.9
32511 19	Other brick (paving, floor, and sewer) (2-1/4 in. x 3-5/8 in. x 7-5/8 in. equivalent).....	...do....	10.0	10.1	.8	24.1	21.0	1.5
32511 00	Brick, except ceramic glaze and refractory brick, n.s.k.....	.....	(X)	(X)	4.0	(X)	(X)	1.7
32512 --	Glazed brick and structural hollow tile.....	.....	(X)	(X)	18.5	(X)	(X)	29.3
32512 11	Structural clay tile, except facing, including load-bearing and nonload-bearing tile, silo tile, corncrib tile, structural floor tile, etc.....	1,000 s. tons.	74.2	75.4	2.4	240.3	240.6	6.2
32512 31	Facing tile (structural) and ceramic glazed brick: Ceramic glazed facing tile and ceramic glazed brick (2-1/4 in. x 3-5/8 in. x 7-5/8 in. equivalent).....	Mil. bricks.	132.0	141.9	15.3	248.0	231.5	21.6
32512 51	Unglazed and salt glazed facing tile (8 in. x 5 in. x 12 in. equivalent).....	Mil. tiles	.3	.8	.5	4.3	4.2	.8
32512 00	Glazed brick and structural hollow tile, n.s.k.....	.....	(X)	(X)	.3	(X)	(X)	.7
32510 00	Brick and structural clay tile, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	(X)	15.7	(X)	(X)	13.6
32510 02	Brick and structural clay tile, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	(X)	5.7	(X)	(X)	2.9
3253- --	CERAMIC WALL AND FLOOR TILE, TOTAL.....	.....	(X)	(X)	157.9	(X)	(X)	134.8
32530 13	Ceramic mosaic tile and accessories (tiles with a facial area of less than 6 square inches): Glazed.....	Mil.sq.ft.	6.6	6.1	3.0	7.8	6.0	3.4
32530 53	Unglazed.....	...do....	34.3	33.9	19.9	30.0	29.9	15.7
32530 15	Other glazed floor and wall tile and accessories.....	...do....	220.7	219.7	110.7	194.2	188.9	95.7
32530 55	Other unglazed floor and wall tile and accessories.....	...do....	2.6	2.6	1.6	-	-	-
32530 71	Quarry tile and promenade tile.....	...do....	31.4	32.9	16.3	35.0	34.9	14.7
32530 00	Ceramic wall and floor tile, n.s.k., principally represents establishments of companies with 10 employees or more in 1972. (See note.).....	.....	(X)	(X)	5.7	(X)	(X)	5.1
32530 02	Ceramic wall and floor tile, n.s.k., principally represents establishments of companies with less than 10 employees in 1972. (See note.).....	.....	(X)	(X)	.7	(X)	(X)	.2

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3255- --	CLAY REFRACTORIES: ²					
	As reported in the census of manufactures.....	.....	(X)	302.2	(X)	235.3
	As reported on census quarterly form MQ32C ³.....	.....	(X)	283.5	(X)	225.1
32550 11	Brick and shapes: Fireclay (including semisilica) brick and shapes, except superduty ⁴	1,000 9"equiv.				
32550 45	Glass house pots, tank blocks, feeder parts, and upper structure shapes used only for glass tanks ⁴.....	...do....	214.5	49.5	277.0	53.4
32550 15	Superduty fireclay brick and shapes.....	...do....	67.8	24.9	78.5	24.3
32550 21	High alumina brick and shapes (50% Al ₂ O ₃ and over) made substantially of calcined diaspore or bauxite ⁵.....	...do....	75.8	51.8	49.7	26.9
32550 31	Ladle brick.....	...do....	207.4	32.2	187.2	23.8
32550 41	Sleeves, nozzles, runner brick and tuyeres.....	...do....	48.7	18.6	45.0	12.2
32550 26	Insulating fire brick and shapes: ⁷ 1600°F to 2000°F (but not including 2000°F).....	...do....	1.3	.3	3.4	.7
32550 27	2000°F to 2300°F (but not including 2300°F).....	...do....	10.6	2.7	14.8	3.1
32550 23	2300°F to 2800°F (but not including 2800°F).....	...do....	26.4	8.4	32.9	9.9
32550 24	2800°F and higher.....	...do....	6.4	3.4	8.2	3.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3255- --	CLAY REFRACTORIES--Continued					
32550 47	Hot top refractories.....	Short tons....	83.8	6.8	47.3	4.0
32550 49	Clay kiln furniture, radiant heater elements, potters' supplies, and other miscellaneous shaped refractory items.....	...do.....	(S)	11.9	(S)	7.8
32550 53	Refractory bonding mortars: ⁸					
32550 57	Air-setting wet and dry types.....	...do.....	67.0	11.3	62.8	8.6
	Except air-setting types.....	...do.....	8.6	1.3	14.7	1.7
32550 61	Plastic refractories and ramming mixes ^{5 9}.....	...do.....	174.4	18.2	190.1	17.0
	Castable refractories (hydraulic setting):					
32550 65	Clay.....	...do.....	192.6	24.5	161.8	16.5
32550 69	Insulating.....	...do.....	44.6	7.6	39.2	5.2
32550 94	Other clay refractory materials sold in lump or ground form ^{10 11}..	...do.....	368.7	10.0	225.3	6.2
1972 product code	Product	Unit of measure	1972		1967	
			Production for all purposes	Total product shipments including interplant transfers	Production for all purposes	Total product shipments including interplant transfers
				Quantity Value (million dollars)		Quantity Value (million dollars)
3259- --	STRUCTURAL CLAY PRODUCTS, N.E.C., TOTAL.....		(X)	(X) 169.3	(X)	(X) 137.1
32591 11	Vitrified clay sewer pipe and fittings.....		1,766.6	1,711.1 134.7	1,487.6	1,490.4 93.0
32592 --	Other structural clay products, n.e.c.....		(X)	(X) 28.8	(X)	(X) 39.7
32592 11	Drain tile.....	1,000 s. tons.	273.9	292.1 9.5	789.0	778.5 20.5
32592 51	Flue lining.....	...do.....	162.3	154.1 8.2	171.1	166.3 6.9
32592 98	Other structural clay products such as terra cotta (architec- tural), roofing tile, conduit, chimney pipe, tops and thimbles, wall coping, and adobe brick.....		(X)	(X) 10.4	(X)	(X) 11.8
32592 00	Other structural clay products, n.e.c.....		(X)	(X) .6	(X)	(X) .5
32590 00	Structural clay products, n.e.c., for companies with 10 employees (See note.).....		(X)	(X) 4.3	(X)	(X) 3.5
32590 02	Structural clay products, n.e.c. for companies with less than 10 employees. (See note.).....		(X)	(X) 1.5	(X)	(X) .9

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹1967 data collected in millions of barrels was converted to short tons using conversion factor, 1 barrel equals 376 pounds for portland cement and 1 barrel equals 280 pounds for prepared or mixed hydraulic and masonry cements other than special portlands.

²Does not include shipments of ground crude fire clay, high alumina clay, silica fire clay, and dead-burned magnesia or magnesite for direct use as finished refractory products, but not classified as refractories under the Standard Industrial Classification system.

³The 1972 data shown below include all revised figures published in the 1973 Annual Summary. (It should be noted that Census form MQ32C does not include refractory materials shipped to refractory producers for reprocessing in the manufacture of brick and other refractories. Figures for these shipments are included in the 1972 Census of Manufactures.) The value of these products in 1972 was approximately \$5 to \$10 million.

⁴Combined in order to avoid disclosing the individual company data.

⁵Excludes data for mullite and extra high alumina refractories. These products are included in the nonclay refractories section.

⁶"Calcined" as applied to diaspor and bauxite implies heat treatment short of fusion for volume stability prior to use in a refractory product. In the process, volatile materials are driven off and chemical changes take place.

⁷The subdivisions are in accordance with the ASTM Classification C1 55, the respective groups being 16, 20, 23, 28, and higher.

⁸Includes bonding mortars which contain up to 60% Al₂O₃ dry basis. Bonding mortars which contain more than 60% Al₂O₃ dry basis are included in the nonclay refractories section.

⁹Includes products referred to as plastic fire brick and the less plastic materials intended for ramming into place after the addition of water (when shipped in dry form). Excludes mixes made of mullite or extra high alumina. Mixes made of these products are included in the nonclay refractories section.

¹⁰Includes shipments for direct use as finished refractory products by establishments classified in "manufacturing" industries and excludes shipments to refractory producers for reprocessing in the manufacture of brick and other refractories.

¹¹Includes data for calcined clay, ground brick, siliceous, and other gunning mixes.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
BRICK, EXCEPT CERAMIC GLAZED AND REFRAC- TORY (32511)			BRICK, EXCEPT CERAMIC GLAZED AND REFRAC- TORY (32511)--Continued		
United States.....	431.4	298.1	South Region--Continued		
Northeast Region.....	48.1	42.8	South Atlantic Division--Continued		
New England Division.....	9.0	6.9	Maryland.....	8.4	4.7
New Hampshire.....	1.2	1.7	Virginia.....	17.8	13.0
Massachusetts.....	BB	1.8	West Virginia.....	BB	BB
Connecticut.....	BB	BB	North Carolina.....	46.5	32.6
Middle Atlantic Division.....	39.1	35.9	South Carolina.....	29.3	14.1
New York.....	5.8	7.0	Georgia.....		19.5
New Jersey.....	3.7	4.6	East South Central Division.....	55.5	42.6
Pennsylvania.....	29.6	24.3	Kentucky.....	CC	BB
North Central Region.....	81.1	63.0	Tennessee.....	EE	EE
East North Central Division.....	58.8	50.0	Alabama.....	11.7	14.2
Ohio.....	38.1	31.9	Mississippi.....	EE	10.7
Indiana.....	CC	CC	West South Central Division.....	57.1	42.5
Illinois.....	11.7	11.2	Arkansas.....	14.5	7.9
Michigan.....	BB	AA	Louisiana.....	4.4	2.6
West North Central Division.....	22.2	13.0	Oklahoma.....	5.1	3.8
Minnesota.....	1.5	AA	Texas.....	33.1	28.2
Iowa.....	7.7	BB	West Region.....	39.2	19.2
Missouri.....	4.3	2.6	Mountain Division.....	23.2	10.1
Nebraska.....	BB	1.8	Colorado.....	10.6	5.2
Kansas.....	5.7	3.9	Arizona.....	BB	BB
South Region.....	263.0	173.2	Utah.....	CC	BB
South Atlantic Division.....	150.4	88.1	Pacific Division.....	16.0	9.1
Delaware.....	AA		Washington.....	BB	AA
			California.....	12.0	6.5

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
32410	Cement, hydraulic.....	1,770.0	1,554.0	1,381.3	1,374.8	1,302.3	1,221.7	1,630.0	1,062.8
3251-	Brick and structural clay tile.....	471.3	431.9	373.3	373.7	376.4	343.9	308.1	268.9
32511	Brick, except ceramic glazed and refractory.....	431.4	(407.8)	339.5	330.4	326.4	298.1	263.6	212.7
32512	Glazed brick and structural hollow tile.....	18.5	17.4	(20.1)	27.4	27.0	29.3	35.9	43.2
32510	Brick and structural clay tile, n.s.k.....	21.4	6.7	(13.7)	15.9	23.0	16.5	8.7	12.9
32530	Ceramic wall and floor tile.....	157.9	140.3	129.7	143.0	145.1	134.8	143.4	124.2
32550	Clay refractories.....	302.2	284.1	297.4	285.7	250.2	235.3	180.7	158.2
3259-	Structural clay products, n.e.c.....	169.3	152.7	139.1	163.9	150.7	137.1	141.4	132.3
32591	Vitrified clay sewer pipe and fittings.....	134.7	116.8	102.0	115.5	107.2	93.0	98.2	86.9
32592	Other structural clay products, n.e.c.....	28.8	35.9	37.1	48.4	43.5	39.7	39.9	45.4
32590	Structural clay products, n.e.c., n.s.k.....	5.8	-	-	-	-	4.4	3.3	(X)

- Represents zero. (X) Not applicable.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3241.--CEMENT, HYDRAULIC					
	Materials, containers, and supplies, total.....		(X)	349.2	(X)	227.7
264338	Paper shipping sacks and multiwall bags.....	1,000 s. tons.	(S)	21.2	(S)	16.8
320591	Refractories, clay and nonclay.....	...do.....	83,8	18.5	75.8	11.0
142011	Crushed and broken stone, including cement rock, limestone, etc...	...do.....	(S)	79.7	(S)	42.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	210.6	(X)	145.7
976000	Materials, containers, and supplies, n.s.k.....		(X)	19.2	(X)	11.4

Note: Materials consumed data are not applicable for industries 3251, 3253, 3255, and 3259.

(X) Not applicable. (S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3241.--CEMENT, HYDRAULIC					
	Purchased fuels and electric energy.....		(X)	243.1	(X)	190.5
	Purchased fuels, total.....		(X)	163.7	(X)	124.6
121005	Coal.....	1,000 s. tons.....	6,876.2	73.7	8,554.0	61.3
331212	Coke.....	...do.....	(S)	(S)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	6,808.3	22.2	2,611.0	7.3
291141	Distillate.....	...do.....	2,176.7	7.9	674.2	2.5
291151	Residual.....	...do.....	4,631.6	14.3	1,936.8	4.8
131300	Natural gas.....	Billion ft ³	201.7	67.1	183.0	51.3
960011	Other fuels.....		(X)	(S)	(X)	.4
975000	Fuels, n.s.k.....		(X)	(S)	(X)	4.3
960012	Purchased electric energy.....	Million kWh.....	8,514.6	79.4	7,495.2	65.9
	Quantity of electric energy generated less quantity sold....	...do.....	607.1	-	923.0	-
	Total energy used for heat and power.....	Bil. kWh equiv....	134.4	-	137.5	-
	INDUSTRY 3251.--BRICK AND STRUCTURAL CLAY TILE					
	Purchased fuels and electric energy.....		(X)	45.6	(X)	44.7
	Purchased fuels, total.....		(X)	35.7	(X)	35.2
121005	Coal.....	1,000 s. tons.....	119.9	1.4	439.4	2.9
331212	Coke.....	...do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	539.6	2.7	694.4	2.5
291141	Distillate.....	...do.....	539.6	2.7	447.9	1.8
291151	Residual.....	...do.....	-	-	246.5	.7
131300	Natural gas.....	Billion ft ³	57.3	26.0	65.2	25.1
960011	Other fuels.....		(X)	1.1	(X)	.8
975000	Fuels, n.s.k.....		(X)	4.4	(X)	3.9
960012	Purchased electric energy.....	Million kWh.....	708.1	9.9	(NA)	9.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.8	-
	Total energy used for heat and power.....	Bil. kWh equiv....	23.2	-	30.1	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3253.--CERAMIC WALL AND FLOOR TILE					
	Purchased fuels and electric energy.....		(X)	5.1	(X)	4.9
	Purchased fuels, total.....		(X)	3.4	(X)	3.3
121005	Coal.....	1,000 s. tons.....	-	-	-	-
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	25.1	.1	88.7	.3
291141	Distillate.....	...do.....	25.1	.1	(D)	(D)
291151	Residual.....	...do.....	-	-	(D)	(D)
131300	Natural gas.....	Billion ft³.....	4.4	2.8	6.1	2.9
960011	Other fuels.....		(X)	(Z)	(X)	.1
975000	Fuels, n.s.k.....		(X)	.5	(X)	-
960012	Purchased electric energy.....	Million kWh.....	119.2	1.7	128.3	1.6
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.8	-
	Total energy used for heat and power.....	Bill. kWh equiv....	1.8	-	2.2	-
	INDUSTRY 3255.--CLAY REFRACTORIES					
	Purchased fuels and electric energy.....		(X)	17.7	(X)	16.9
	Purchased fuels total.....		(X)	13.4	(X)	13.4
121005	Coal.....	1,000 s. tons.....	3.2	(Z)	30.4	.2
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	175.1	.8	72.7	.4
291141	Distillate.....	...do.....	124.6	.6	(D)	(D)
291151	Residual.....	...do.....	50.4	.2	(D)	(D)
131300	Natural gas.....	Billion ft³.....	23.6	12.2	23.2	11.2
960011	Other fuels.....		(X)	.2	(X)	.1
975000	Fuels, n.s.k.....		(X)	.2	(X)	1.5
960012	Purchased electric energy.....	Million kWh.....	301.9	4.3	271.6	3.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	1.4	-
	Total energy used for heat and power.....	Bill. kWh equiv....	7.9	-	9.0	-
	INDUSTRY 3259.--STRUCTURAL CLAY PRODUCTS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	13.9	(X)	14.5
	Purchased fuels, total.....		(X)	11.3	(X)	11.9
121005	Coal.....	1,000 s. tons.....	125.5	1.1	143.3	1.0
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	182.5	.8	121.1	.4
291141	Distillate.....	...do.....	110.5	.6	(D)	(D)
291151	Residual.....	...do.....	72.0	.2	(D)	(D)
131300	Natural gas.....	Billion ft³.....	16.9	8.2	22.1	9.6
960011	Other fuels.....		(X)	.2	(X)	.3
975000	Fuels, n.s.k.....		(X)	1.0	(X)	.6
960012	Purchased electric energy.....	Million kWh.....	184.8	2.6	182.8	2.6
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.4	-
	Total energy used for heat and power.....	Bill. kWh equiv....	7.4	-	8.7	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

Pottery and Related Products

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EXPLANATORY TEXT

POTTERY AND RELATED PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3261—Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories***
- 3262—Vitreous China Table and Kitchen Articles***
- 3263—Fine Earthenware (Whiteware) Table and Kitchen Articles***
- 3264—Porcelain Electrical Supplies**
- 3269—Pottery Products, N.E.C.**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3261.—VITREOUS PLUMBING FIXTURES (Short Title)

This industry comprises establishments primarily engaged in manufacturing china plumbing fixtures and china and earthenware fittings and bathroom accessories. For a detailed list of products of industry 3261, refer to table 6A, product codes 32610 10 to 32610 51.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

*Note that the "short title" for this industry is used throughout the report.

Value of shipments and other receipts of the Vitreous Plumbing Fixtures Industry in 1972 totaled \$270 million. This included shipments of vitreous plumbing fixtures (primary products) valued at \$228 million, shipments of other products (secondary products) valued at \$26 million, and miscellaneous receipts (mainly resales) of \$16 million.

Shipments of vitreous plumbing fixtures (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent.

Shipments of vitreous plumbing fixtures (primary products) from establishments classified in industry 3261 in 1972 represented 92 percent (coverage ratio) of these products valued at \$248 million shipped by all industries. In 1967, the coverage ratio was 96 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3261, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3262.—VITREOUS CHINA FOOD UTENSILS (Short Title)

This industry comprises establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink.

Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in industry 3263. For a detailed list of products of industry 3262, refer to table 6A, product codes 32620 14 to 32620 52.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Vitreous China Food Utensils Industry in 1972 totaled \$82 million. This included shipments of vitreous china food utensils (primary products) valued at \$72 million, shipments of other products (secondary products) valued at \$9 million, and miscellaneous receipts of \$1 million.

Shipments of vitreous china food utensils (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of pottery products, n.e.c., (over \$2 million).

Shipments of vitreous china food utensils (primary products) from establishments classified in industry 3262 in 1972 represented 88 percent (coverage ratio) of these products valued at \$82 million shipped by all industries. In 1967, the coverage ratio was 89 percent. Other industries shipping vitreous china food utensils consisted mainly of industry 3263, Fine Earthenware Food Utensils, (over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3262, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3263.—FINE EARTHENWARE FOOD UTENSILS (Short Title)

This industry comprises establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food and drink.

Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in industry 3262. For a detailed list of products of industry 3263, refer to table 6A, product codes 32630 12 and 32630 52.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Fine Earthenware Food Utensils Industry in 1972 totaled \$74 million. This included shipments of fine earthenware food utensils (primary products) valued at \$56 million and shipments of other products (secondary products) and miscellaneous receipts of \$18 million.

Shipments of fine earthenware food utensils (primary products) in 1972 represented a minimum of 70 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 86 percent. Secondary products shipped by this industry in 1972 consisted mainly of vitreous china food utensils and ceramic wall and floor tile (each over \$2 million).

Shipments of fine earthenware food utensils (primary products) from establishments classified in industry 3263 in 1972 represented 97 percent (coverage ratio) of these products valued at \$58 million shipped by all industries. In 1967, the coverage ratio was 86 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3263, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3264.—PORCELAIN ELECTRICAL SUPPLIES

This industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and other electrical supplies from clay and other ceramic materials. For a detailed list of products of industry 3264, refer to table 6A, product codes 32640 12 to 32640 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Porcelain Electrical Supplies Industry in 1972 totaled \$275 million. This included shipments of porcelain electrical supplies (primary products) valued at \$247 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly resales) of \$4 million.

Shipments of porcelain electrical supplies (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of porcelain electrical supplies (primary products) from establishments classified in industry 3264 in 1972 represented 95 percent (coverage ratio) of these products valued at \$259 million shipped by all industries. In 1967, the coverage ratio was 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3264, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3269.—POTTERY PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products, not elsewhere classified. For a detailed list of products of industry 3269, refer to table 6A, product codes 32690 11 to 32690 91.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Pottery Products, N.E.C., Industry in 1972 totaled \$134 million. This included shipments of pottery products, n.e.c., (primary products) valued at \$124 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly resales) of \$6 million.

Shipments of pottery products, n.e.c., (primary products) in 1972 represented 97 percent (specialization ratio) of the

industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 97 percent.

Shipments of pottery products, n.e.c., (primary products) from establishments classified in industry 3269 in 1972 represented 84 percent (coverage ratio) of these products valued at \$147 million shipped by all industries. In 1967, the coverage ratio was 87 percent. Other industries shipping pottery products, n.e.c., consisted mainly of industry 3262, Vitreous China Food Utensils; industry 3264, Porcelain Electrical Supplies; and industry 2771, Greeting Card Publishing (each over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3269, these establishments accounted for 18 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3261.--VITREOUS PLUMBING FIXTURES															
1972 Census.....	59	40	9.6	86.5	8.4	16.5	72.6	186.8	84.5	270.0	5.8	(NA)	31.3	90	92
1971 ASM.....	(NA)	(NA)	9.0	75.1	7.8	15.2	61.8	148.2	84.8	234.6	5.2	117.6	29.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.0	67.9	7.6	15.0	55.1	142.1	71.5	209.7	11.6	120.9	31.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	9.6	73.2	8.1	16.3	60.0	156.5	73.9	229.2	10.0	109.8	27.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	9.0	65.1	7.7	15.4	53.4	135.7	68.0	205.3	4.5	100.7	25.5	(NA)	(NA)
1967 Census.....	51	40	8.4	56.5	7.0	13.8	45.7	111.4	58.5	170.0	2.6	96.9	26.6	95	96
1966 ASM.....	(NA)	(NA)	9.2	60.0	7.6	15.2	48.2	117.8	61.6	180.7	5.2	(NA)	26.6	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	9.0	56.0	7.5	14.6	45.2	112.0	61.1	173.6	3.0	(NA)	27.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.1	57.3	7.6	15.2	46.7	110.1	56.9	166.1	3.1	101.8	28.1	(NA)	(NA)
1963 Census.....	49	43	9.3	56.8	7.9	25.5	46.6	101.5	55.7	155.7	2.4	99.1	26.8	97	97
1962 ASM.....	(NA)	(NA)	8.8	51.5	7.4	14.3	41.0	88.1	52.8	141.5	1.6	97.9	25.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	8.9	49.3	7.5	14.1	39.3	85.8	49.8	135.4	3.2	(NA)	27.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	10.3	56.0	8.7	17.0	45.0	100.6	57.0	153.7	3.2	(NA)	28.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	10.9	58.8	9.4	18.6	48.2	112.8	64.9	175.5	1.8	(NA)	26.8	(NA)	(NA)
1958 Census.....	49	43	9.7	49.6	8.1	15.6	39.6	87.3	52.8	142.7	1.6	(NA)	24.5	97	97
INDUSTRY 3262.--VITREOUS CHINA FOOD UTENSILS															
1972 Census.....	34	20	5.9	41.2	4.9	9.3	29.3	67.4	13.7	81.9	1.8	(NA)	14.0	² 90	88
1971 ASM.....	(NA)	(NA)	5.6	35.2	4.5	8.2	24.3	60.3	13.0	73.6	3.0	33.8	16.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	6.1	35.1	5.1	9.1	24.5	62.5	13.1	75.9	2.6	33.5	16.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	7.3	39.3	6.2	11.4	30.3	66.8	13.6	79.5	2.9	35.9	16.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	6.9	37.5	5.9	11.1	29.2	57.1	11.8	68.9	1.6	36.4	15.2	(NA)	(NA)
1967 Census.....	39	28	7.0	36.1	6.0	11.2	27.3	55.8	12.7	67.2	1.9	36.0	15.2	² 90	² 90
1966 ASM.....	(NA)	(NA)	6.6	33.5	5.6	10.5	24.9	50.1	10.4	60.0	1.3	(NA)	13.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	6.5	32.4	5.5	10.5	24.2	47.9	9.8	57.2	3.0	(NA)	12.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	6.4	31.4	5.3	10.1	23.0	45.2	9.8	54.7	.6	29.1	12.3	(NA)	(NA)
1963 Census.....	31	21	6.3	29.6	5.3	9.8	21.8	42.5	8.9	51.0	.7	28.8	11.9	² 90	² 90
1962 ASM.....	(NA)	(NA)	6.7	29.6	5.5	10.6	21.6	43.8	9.2	52.2	1.1	26.5	11.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	6.5	27.9	5.4	10.1	20.2	40.2	8.6	49.2	.6	(NA)	10.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	7.1	30.0	5.9	10.9	21.6	42.6	9.0	51.5	.8	(NA)	11.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.2	30.4	6.1	11.6	22.6	42.7	8.9	51.8	1.1	(NA)	11.6	(NA)	(NA)
1958 Census.....	28	23	7.2	28.6	6.0	10.9	20.5	39.3	8.1	47.7	.9	(NA)	11.7	96	96
INDUSTRY 3263.--FINE EARTHENWARE FOOD UTENSILS															
1972 Census.....	18	15	6.8	41.4	5.7	10.8	30.8	56.2	18.1	74.3	3.1	(NA)	18.2	² 70	97
1971 ASM.....	(NA)	(NA)	6.4	37.3	5.3	9.9	28.3	52.0	16.0	66.5	1.3	30.8	17.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	5.9	29.1	5.3	9.4	24.6	36.3	11.6	48.7	.5	21.0	11.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	6.3	31.5	5.7	11.3	27.1	41.4	14.0	54.8	.6	21.5	12.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	6.8	32.0	6.0	11.7	27.6	42.0	14.9	56.4	.7	20.7	10.9	(NA)	(NA)
1967 Census.....	21	17	5.9	27.5	5.3	9.8	22.6	34.6	12.4	47.1	1.0	20.0	10.1	86	86
1966 ASM.....	(NA)	(NA)	6.3	27.4	5.6	10.2	22.2	34.1	13.7	47.6	1.0	(NA)	10.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	6.4	28.2	5.8	10.7	22.9	37.2	14.5	52.3	.9	(NA)	10.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	7.5	32.3	6.7	12.5	26.8	44.5	19.0	62.2	1.1	24.8	11.1	(NA)	(NA)
1963 Census.....	21	18	7.3	31.6	6.6	12.3	26.4	41.0	17.9	59.0	.8	24.1	9.7	92	91
1962 ASM.....	(NA)	(NA)	*6.7	*27.1	*6.0	*10.7	*22.2	*34.2	*14.2	*48.4	*.7	23.5	*6.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*6.9	*25.9	*6.2	*10.8	*21.1	*32.8	*13.0	*46.4	*.7	(NA)	*6.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*8.8	*33.6	*7.9	*13.8	*27.9	*41.7	*16.1	*58.3	*.7	(NA)	*9.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*9.3	*33.5	*8.5	*14.3	*28.2	*41.9	*15.5	*58.2	*.5	(NA)	*9.5	(NA)	(NA)
1958 Census.....	30	24	8.7	28.7	8.0	12.6	24.8	36.3	13.2	50.2	.6	(NA)	10.8	98	91
INDUSTRY 3264.--PORCELAIN ELECTRICAL SUPPLIES															
1972 Census.....	83	64	13.4	114.0	10.9	21.9	85.4	190.4	85.5	274.6	7.2	(NA)	44.2	91	95
1971 ASM.....	(NA)	(NA)	11.4	90.4	9.2	17.6	66.8	149.7	70.3	218.4	13.0	149.9	35.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	12.1	92.5	10.0	19.8	68.7	149.7	70.5	220.1	10.7	143.6	36.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	14.4	104.6	11.7	23.8	77.5	182.1	89.0	268.9	24.7	159.5	43.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	11.9	80.8	9.6	18.9	59.9	137.1	64.2	200.2	11.3	124.3	31.6	(NA)	(NA)
1967 Census.....	74	50	13.4	89.9	11.0	22.2	67.5	153.5	76.0	225.0	21.4	127.4	35.6	85	98
1966 ASM.....	(NA)	(NA)	12.1	76.0	10.0	20.3	57.7	139.1	60.7	197.1	11.4	(NA)	26.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.7	66.0	8.8	18.0	49.5	114.0	53.6	165.9	7.7	(NA)	22.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.9	59.4	8.0	16.3	43.2	94.6	43.6	139.0	7.6	77.8	19.1	(NA)	(NA)
1963 Census.....	79	49	10.2	57.4	8.0	15.9	41.1	90.0	41.8	131.8	4.1	71.1	19.6	91	95
1962 ASM.....	(NA)	(NA)	10.1	53.8	8.0	15.6	38.8	83.9	40.5	122.8	4.7	69.1	19.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	9.7	50.6	7.7	15.1	36.4	77.4	37.5	115.3	5.2	(NA)	17.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	9.4	47.2	7.6	15.2	35.4	75.9	35.9	111.4	4.1	(NA)	16.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	9.6	46.5	8.0	16.1	35.1	76.7	34.8	109.9	3.5	(NA)	15.7	(NA)	(NA)
1958 Census.....	59	44	9.1	42.4	7.5	14.7	31.3	66.1	31.0	97.5	4.4	(NA)	13.9	92	93

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3269.--POTTERY PRODUCTS, N.E.C.														
1972 Census.....	426	95	9.1	52.2	7.6	14.8	37.6	99.9	33.8	134.0	5.2	(NA)	14.0	97	84
1971 ASM.....	(NA)	(NA)	10.0	50.5	8.7	16.2	38.6	91.7	33.5	124.7	2.8	47.5	15.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.6	44.9	8.5	16.2	34.6	81.6	30.3	111.7	3.0	46.4	14.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	8.4	41.8	7.1	13.5	30.4	73.5	35.7	108.8	4.1	54.5	10.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	7.7	36.4	6.6	12.6	26.7	64.7	31.6	96.4	2.2	*60.8	10.9	(NA)	(NA)
1967 Census.....	434	96	7.9	37.0	6.7	13.1	27.0	63.4	33.7	96.1	3.0	*59.7	10.7	97	87
1966 ASM.....	(NA)	(NA)	9.2	41.6	7.8	16.1	30.9	73.3	38.6	110.3	*7.9	(NA)	12.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	9.1	38.8	7.7	15.8	28.8	65.2	34.6	99.0	2.6	(NA)	11.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	8.9	39.8	7.2	15.3	28.9	67.4	35.1	101.1	*2.5	*52.4	11.3	(NA)	(NA)
1963 Census.....	458	98	9.1	37.5	7.5	14.9	27.8	62.1	34.1	95.5	3.1	*50.5	9.9	87	89
1962 ASM.....	(NA)	(NA)	9.8	38.0	8.4	15.3	28.5	59.8	34.8	96.2	1.3	*47.6	9.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	9.0	33.8	7.7	14.7	25.6	55.8	31.7	89.6	3.3	(NA)	9.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	9.7	35.0	8.3	16.0	26.7	57.3	29.8	88.8	2.8	(NA)	10.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	10.4	34.8	8.7	16.6	26.6	57.7	31.1	87.3	2.4	(NA)	9.3	(NA)	(NA)
1958 Census.....	587	108	9.2	31.2	7.7	15.2	23.8	54.0	25.2	78.8	3.3	(NA)	8.4	93	90

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3261	Industry 3262	Industry 3263	Industry 3264	Industry 3269
1972.....	43	32	17	74	417
1967.....	34	35	20	65	424
1963.....	34	26	20	74	449

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3261.--VITREOUS PLUMBING FIXTURES											
1972 Census.....	9,010	(NA)	87	1,964	4.40	.31	.63	(NA)	19,458	46	11.32
1971 ASM.....	8,344	13,070	87	1,949	4.07	.36	.68	.50	16,467	51	9.75
1970 ASM.....	7,544	13,430	84	1,974	3.67	.34	.66	.58	15,789	48	9.47
1969 ASM.....	7,625	11,440	84	2,012	3.68	.32	.64	.48	16,302	47	9.60
1968 ASM.....	7,233	11,190	86	2,000	3.47	.33	.65	.49	15,078	48	8.81
1967 Census.....	6,743	11,540	84	1,973	3.31	.34	.68	.57	13,288	51	8.06
1966 ASM.....	6,548	(NA)	83	1,990	3.17	.34	.67	(NA)	12,856	51	7.76
1965 ASM.....	6,258	(NA)	84	1,944	3.09	.35	.67	(NA)	12,506	50	7.65
1964 ASM.....	6,327	11,190	84	1,987	3.08	.34	.69	.61	12,159	56	7.26
1963 Census.....	6,120	10,660	85	1,966	3.00	.36	.72	.64	10,938	56	6.54
1962 ASM.....	5,848	11,130	83	1,946	2.86	.37	.74	.69	9,593	57	6.07
1961 ASM.....	5,516	(NA)	83	1,895	2.78	.37	.73	(NA)	9,593	57	6.07
1960 ASM.....	5,438	(NA)	85	1,943	2.65	.37	.74	(NA)	9,761	56	5.92
1959 ASM.....	5,387	(NA)	86	1,979	2.60	.37	.70	(NA)	10,329	52	6.08
1958 Census.....	5,122	(NA)	84	1,928	2.53	.37	.72	(NA)	9,021	57	5.58

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3262.--VITREOUS CHINA FOOD UTENSILS											
1972 Census.....	6,983	(NA)	83	1,898	3.15	.17	.67	(NA)	11,424	61	7.25
1971 ASM.....	6,286	6,040	80	1,822	2.96	.18	.65	.46	10,768	58	7.35
1970 ASM.....	5,754	5,490	84	1,784	2.69	.17	.64	.44	10,246	56	6.87
1969 ASM.....	5,384	4,920	85	1,839	2.66	.17	.67	.45	9,151	59	5.86
1968 ASM.....	5,435	5,280	86	1,881	2.63	.17	.72	.53	8,275	66	5.14
1967 Census.....	5,141	5,140	85	1,877	2.45	.19	.73	.54	7,956	65	4.99
1966 ASM.....	5,105	(NA)	85	1,891	2.37	.17	.73	(NA)	7,627	67	4.77
1965 ASM.....	4,985	(NA)	85	1,895	2.31	.17	.74	(NA)	7,363	68	4.57
1964 ASM.....	4,899	4,550	83	1,887	2.29	.18	.75	.53	7,064	69	4.49
1963 Census.....	4,680	4,570	84	1,856	2.22	.18	.76	.56	6,732	70	4.33
1962 ASM.....	4,428	3,960	82	1,924	2.03	.18	.74	.51	6,544	68	4.13
1961 ASM.....	4,285	(NA)	83	1,867	2.00	.17	.74	(NA)	6,179	69	3.99
1960 ASM.....	4,259	(NA)	83	1,864	1.98	.18	.76	(NA)	6,039	71	3.89
1959 ASM.....	4,207	(NA)	85	1,906	1.95	.17	.76	(NA)	5,920	71	3.67
1958 Census.....	3,942	(NA)	83	1,824	1.87	.17	.77	(NA)	5,420	73	3.59
INDUSTRY 3263.--FINE EARTHENWARE FOOD UTENSILS											
1972 Census.....	6,088	(NA)	84	1,895	2.85	.24	.80	(NA)	8,265	74	5.20
1971 ASM.....	5,828	4,810	83	1,868	2.86	.24	.80	.46	8,125	72	5.25
1970 ASM.....	4,932	3,560	90	1,774	2.62	.24	.84	.43	6,153	80	3.86
1969 ASM.....	5,000	3,440	90	1,982	2.40	.26	.83	.39	6,571	76	3.66
1968 ASM.....	4,706	3,040	88	1,950	2.36	.26	.83	.37	6,176	76	3.59
1967 Census.....	4,627	3,390	90	1,844	2.30	.26	.85	.42	5,829	79	3.53
1966 ASM.....	4,365	(NA)	90	1,811	2.18	.29	.86	(NA)	5,436	80	3.34
1965 ASM.....	4,378	(NA)	89	1,858	2.15	.28	.82	(NA)	5,776	76	3.48
1964 ASM.....	4,321	3,310	90	1,862	2.14	.31	.82	.40	5,947	73	3.55
1963 Census.....	4,302	3,300	90	1,868	2.14	.30	.84	.41	5,585	77	3.33
1962 ASM.....	4,034	3,510	89	1,802	2.07	.29	.85	.49	5,093	79	3.19
1961 ASM.....	3,755	(NA)	90	1,755	1.95	.28	.84	(NA)	4,756	79	3.02
1960 ASM.....	3,828	(NA)	90	1,747	2.02	.28	.85	(NA)	4,760	80	3.03
1959 ASM.....	3,609	(NA)	91	1,691	1.97	.27	.84	(NA)	4,510	80	2.92
1958 Census.....	3,298	(NA)	91	1,587	1.96	.26	.84	(NA)	4,165	79	2.87
INDUSTRY 3264.--PORCELAIN ELECTRICAL SUPPLIES											
1972 Census.....	8,507	(NA)	81	2,009	3.90	.31	.73	(NA)	14,209	60	8.69
1971 ASM.....	7,930	13,150	81	1,913	3.80	.32	.74	.69	13,132	60	8.51
1970 ASM.....	7,645	11,870	83	1,980	3.47	.32	.74	.65	12,372	62	7.56
1969 ASM.....	7,264	11,080	81	2,034	3.26	.33	.72	.59	12,646	57	7.65
1968 ASM.....	6,790	10,450	81	1,969	3.17	.32	.72	.62	11,521	59	7.25
1967 Census.....	6,688	9,510	82	2,017	3.05	.34	.74	.57	11,418	59	6.93
1966 ASM.....	6,289	(NA)	82	2,031	2.85	.31	.69	(NA)	11,499	55	6.86
1965 ASM.....	6,139	(NA)	82	2,043	2.75	.32	.72	(NA)	10,612	58	6.34
1964 ASM.....	5,992	7,860	80	2,039	2.66	.31	.74	.56	9,543	63	5.81
1963 Census.....	5,644	6,970	79	1,983	2.58	.32	.75	.54	8,850	64	5.65
1962 ASM.....	5,306	6,840	79	1,945	2.48	.33	.77	.56	8,276	64	5.37
1961 ASM.....	5,236	(NA)	79	1,964	2.42	.33	.76	(NA)	8,014	65	5.13
1960 ASM.....	5,035	(NA)	81	1,994	2.33	.32	.75	(NA)	8,098	62	4.98
1959 ASM.....	4,814	(NA)	83	2,014	2.18	.32	.74	(NA)	7,985	61	4.76
1958 Census.....	4,652	(NA)	82	1,968	2.13	.32	.75	(NA)	7,255	64	4.48
INDUSTRY 3269.--POTTERY PRODUCTS, N.E.C.											
1972 Census.....	5,736	(NA)	84	1,947	2.54	.25	.64	(NA)	10,978	52	6.75
1971 ASM.....	5,050	4,750	87	1,862	2.38	.27	.67	.38	9,170	55	5.66
1970 ASM.....	4,677	4,830	89	1,906	2.14	.27	.67	.42	8,500	55	5.04
1969 ASM.....	4,976	6,490	85	1,901	2.25	.33	.71	.50	8,750	57	5.44
1968 ASM.....	4,727	7,900	86	1,909	2.12	.33	.71	.63	8,403	56	5.13
1967 Census.....	4,696	7,560	85	1,952	2.06	.35	.73	.62	8,050	58	4.84
1966 ASM.....	4,525	(NA)	84	2,072	1.92	.35	.73	(NA)	7,962	57	4.56
1965 ASM.....	4,259	(NA)	85	2,050	1.82	.35	.74	(NA)	7,146	60	4.12
1964 ASM.....	4,454	5,890	80	2,123	1.90	.35	.74	.52	7,552	59	4.42
1963 Census.....	4,129	5,550	83	1,979	1.86	.36	.75	.53	6,836	60	4.16
1962 ASM.....	3,880	4,860	85	1,832	1.86	.36	.76	.49	6,102	64	3.90
1961 ASM.....	3,758	(NA)	85	1,927	1.74	.35	.73	(NA)	6,197	61	3.78
1960 ASM.....	3,612	(NA)	86	1,916	1.67	.34	.73	(NA)	5,920	61	3.59
1959 ASM.....	3,345	(NA)	84	1,909	1.60	.36	.76	(NA)	5,549	60	3.47
1958 Census.....	3,375	(NA)	84	1,957	1.57	.32	.72	(NA)	5,843	58	3.57

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3261-- VITREOUS PLUMBING FIXTURES													
UNITED STATES.	59	40	9.6	86.5	8.4	16.5	72.6	186.8	84.5	270.0	5.8	8.4	111.4
NORTHEAST REGION	14	9	2.2	20.7	1.9	3.6	17.4	43.8	19.0	62.9	.9	2.6	36.5
NEW ENGLAND DIVISION	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CONNECTICUT.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	13	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY	6	4	.8	6.8	.7	1.2	5.6	14.2	6.6	20.5	.2	1.1	15.5
PENNSYLVANIA	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION	15	12	3.5	31.6	3.0	6.0	27.0	67.3	29.3	94.9	1.4	3.6	41.2
EAST NORTH CENTRAL DIVISION.	14	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	41.2
OHIO	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	14.9
INDIANA	4	4	.5	4.7	.5	.9	3.9	8.8	5.2	14.0	.3	CC	(D)
ILLINOIS	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WISCONSIN.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION	16	12	2.7	21.2	2.3	4.6	17.4	49.0	21.7	71.0	2.9	1.1	17.1
SOUTH ATLANTIC DIVISION.	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	5	4	.6	4.2	.5	1.0	3.5	10.8	5.4	16.4	.8	AA	(D)
KENTUCKY	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	13.2
LOUISIANA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS.	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION.	14	7	1.2	13.0	1.1	2.2	10.9	26.7	14.5	41.3	.6	1.1	16.6
PACIFIC DIVISION	11	7	1.2	12.9	1.1	2.2	10.8	26.6	14.4	41.1	(D)	1.1	16.6
CALIFORNIA	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.6
3262-- VITREOUS CHINA FOOD UTENSILS													
UNITED STATES.	34	20	5.9	41.2	4.9	9.3	29.3	67.4	13.7	81.9	1.8	7.0	55.8
NORTHEAST REGION	10	8	4.2	30.7	3.4	6.4	21.3	51.1	10.7	62.3	(D)	5.1	43.3
MIDDLE ATLANTIC DIVISION	10	8	4.2	30.7	3.4	6.4	21.3	51.1	10.7	62.3	(D)	FF	(D)
NEW YORK	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION	7	4	1.2	8.0	1.1	2.1	6.3	10.9	2.3	13.5	.5	1.5	9.9
EAST NORTH CENTRAL DIVISION.	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	8.9
SOUTH REGION	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	2.0
PACIFIC DIVISION	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	1.9
3263-- FINE EARTHENWARE FOOD UTENSILS													
UNITED STATES.	18	15	6.8	41.4	5.7	10.8	30.8	56.2	18.1	74.3	3.1	5.9	34.6
NORTHEAST REGION	4	3	.4	2.5	.3	.6	1.7	3.0	.8	3.8	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PENNSYLVANIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION	6	6	2.4	13.6	2.2	4.3	11.6	19.0	6.0	25.4	2.5	2.4	12.9
EAST NORTH CENTRAL DIVISION.	6	6	2.4	13.6	2.2	4.3	11.6	19.0	6.0	25.4	2.5	2.4	12.9
OHIO	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH ATLANTIC DIVISION.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3264-- PORCELAIN ELECTRICAL SUPPLIES													
UNITED STATES.	83	64	13.4	114.0	10.9	21.9	85.4	190.4	85.5	274.6	7.2	13.4	153.5
NORTHEAST REGION	39	31	4.7	40.3	3.8	7.5	28.4	73.1	32.8	105.8	(D)	FF	(D)
NEW ENGLAND DIVISION	4	3	.4	4.2	.3	.7	2.8	9.4	4.9	14.1	.5	BB	(D)
MASSACHUSETTS.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3264-- PORCELAIN ELECTRICAL SUPPLIES-- CONTINUED													
NORTHEAST REGION--CONTINUED													
MIDDLE ATLANTIC DIVISION	35	28	4.3	36.1	3.4	6.7	25.6	63.7	27.9	91.6	(D)	FF	(D)
NEW YORK	8	7	1.6	15.6	1.2	2.4	10.7	29.2	16.0	45.1	(D)	1.8	26.6
NEW JERSEY	18	14	1.3	8.9	1.0	2.0	6.5	15.9	5.4	21.1	.6	EE	(D)
PENNSYLVANIA	9	7	1.4	11.7	1.1	2.3	8.4	18.7	6.5	25.5	(D)	1.2	14.0
NORTH CENTRAL REGION	14	11	3.7	34.0	3.0	6.0	27.4	56.8	22.1	78.2	1.8	4.0	48.5
EAST NORTH CENTRAL DIVISION . . .	14	11	3.7	34.0	3.0	6.0	27.4	56.8	22.1	78.2	1.8	FF	(D)
OHIO	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	28.5
ILLINOIS	3	2	.3	2.4	.3	.6	2.1	3.2	1.3	4.4	(D)	BB	(D)
MICHIGAN	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WISCONSIN	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	17	14	3.4	26.5	2.9	5.8	20.6	40.8	22.8	63.3	(D)	FF	(D)
SOUTH ATLANTIC DIVISION	11	9	1.8	15.0	1.6	3.2	11.9	26.0	17.5	43.3	(D)	1.8	21.6
MARYLAND	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST VIRGINIA	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH CAROLINA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
GEORGIA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION	13	8	1.5	13.2	1.2	2.6	9.1	19.7	7.8	27.4	1.0	EE	(D)
MOUNTAIN DIVISION	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
COLORADO	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PACIFIC DIVISION E2	12	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.4
CALIFORNIA E3	9	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3269-- POTTERY PRODUCTS, NEC													
UNITED STATES E1	426	95	9.1	52.2	7.6	14.8	37.6	99.9	33.8	134.0	5.2	7.9	63.4
NORTHEAST REGION E2	91	19	1.4	10.1	1.2	2.5	6.9	23.5	6.8	30.2	1.7	1.3	12.2
NEW ENGLAND DIVISION E7	28	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.9
MIDDLE ATLANTIC DIVISION . . . E1	63	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	10.3
NEW YORK E3	25	3	.2	1.5	.2	.4	1.0	2.9	1.0	3.9	(D)	.2	1.6
NEW JERSEY	22	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	4.7
PENNSYLVANIA E1	16	4	.4	2.0	.3	.6	1.4	5.7	2.0	7.7	(D)	.5	4.0
NORTH CENTRAL REGION	100	33	3.7	22.9	3.0	5.8	15.4	40.5	14.7	55.4	1.4	3.6	29.6
EAST NORTH CENTRAL DIVISION . . .	74	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO	39	21	2.0	12.4	1.5	2.9	7.6	21.7	8.8	30.6	.7	EE	(D)
ILLINOIS	18	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION . . E1	26	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION E1	96	13	1.4	6.1	1.1	1.9	4.7	12.5	3.8	16.0	.5	1.1	6.8
SOUTH ATLANTIC DIVISION . . . E5	53	3	.3	1.5	.3	.5	1.0	3.1	1.1	4.1	.2	.2	1.2
EAST SOUTH CENTRAL DIVISION . . .	18	6	.6	3.1	.6	1.0	2.5	5.7	1.9	7.3	.2	.5	3.5
KENTUCKY	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	1.4
WEST SOUTH CENTRAL DIVISION . . .	25	4	.5	1.6	.3	.4	1.2	3.7	.8	4.5	.3	.3	2.2
TEXAS E1	18	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION E2	139	30	2.6	13.1	2.3	4.6	10.6	23.4	8.6	32.4	1.7	1.9	14.8
PACIFIC DIVISION E2	128	30	2.5	13.0	2.3	4.5	10.5	23.2	8.5	32.0	1.7	1.9	14.2
CALIFORNIA E2	108	28	2.4	12.4	2.2	4.3	10.1	21.5	7.9	29.8	(D)	1.8	13.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

(See appendix, Explanation of Terms)

Item	Vitreous plumbing fixtures (SIC 3261)	Vitreous china food utensils (SIC 3262)	Fine earthenware food utensils (SIC 3263)	Porcelain electrical supplies (SIC 3264)	Pottery products, n.e.c. (SIC 3269)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	90	89	70	91	97
COVERAGE RATIO ² DO	92	88	97	95	84
ESTABLISHMENTS, TOTAL NUMBER	59	34	18	83	42
WITH 1 TO 19 EMPLOYEES DO	19	14	3	19	33
WITH 20 TO 99 EMPLOYEES DO	9	10	4	33	78
WITH 100 EMPLOYEES OR MORE DO	31	10	11	31	17
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	9.6	5.9	6.8	13.4	9.1
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	86.5	41.2	41.4	114.0	52.2
PRODUCTION WORKERS:					
AVERAGE FOR YEAR, 1,000	8.4	4.9	5.7	10.9	7.6
MARCH DO	8.2	4.7	5.7	10.5	7.3
MAY DO	8.3	4.9	5.6	10.8	7.4
AUGUST DO	8.5	5.0	5.6	10.9	7.8
NOVEMBER DO	8.5	5.1	5.8	11.2	8.0
MAN-HOURS MILLIONS	16.5	9.3	10.8	21.9	14.8
JANUARY-MARCH DO	3.9	2.2	2.7	5.3	3.5
APRIL-JUNE DO	4.0	2.4	2.7	5.5	3.6
JULY-SEPTEMBER DO	4.0	2.2	2.5	5.3	3.7
OCTOBER-DECEMBER DO	4.2	2.5	2.8	5.7	4.1
WAGES MILLION DOLLARS	72.6	29.3	30.8	85.4	37.6
COST OF MATERIALS, ETC., TOTAL DO	84.5	13.7	18.1	85.5	33.8
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	66.4	11.0	14.2	73.5	26.3
COST OF RESALES DO	11.1	(0)	(0)	3.5	3.5
FUELS CONSUMED DO	4.4	1.7	1.7	4.1	2.2
PURCHASED ELECTRIC ENERGY DO	2.2	.7	.7	3.2	1.3
CONTRACT WORK DO	(2)	(0)	(0)	1.1	.6
VALUE OF SHIPMENTS, INCLUDING RESALES DO	170.0	81.9	74.3	274.6	134.0
VALUE OF RESALES DO	16.2	(0)	(0)	3.8	5.7
VALUE ADDED BY MANUFACTURE DO	186.8	67.4	56.2	190.4	99.9
MANUFACTURERS' INVENTORIES:					
BEGINNING OF YEAR, TOTAL DO	28.2	14.7	18.4	41.9	13.8
FINISHED PRODUCTS DO	13.5	6.2	10.8	11.3	7.3
WORK IN PROCESS DO	5.5	5.8	3.6	16.2	2.3
MATERIALS, SUPPLIES, FUEL, ETC. DO	9.0	2.6	4.0	14.4	4.2
END OF YEAR, TOTAL DO	31.3	14.0	18.2	44.2	14.0
FINISHED PRODUCTS DO	14.1	6.0	11.1	11.6	7.0
WORK IN PROCESS DO	6.4	5.3	3.2	17.1	2.4
MATERIALS, SUPPLIES, FUEL, ETC. DO	10.7	2.7	3.9	15.5	4.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	5.8	1.8	3.2	7.5	5.4
NEW PLANT AND EQUIPMENT, TOTAL DO	5.8	1.8	3.1	7.2	5.2
NEW STRUCTURES AND ADDITIONS TO PLANT DO	2.4	.4	1.0	1.2	2.2
NEW MACHINERY AND EQUIPMENT DO	3.5	1.5	2.1	6.0	3.0
USED PLANT AND EQUIPMENT DO	(2)	(2)	.1	.3	.2

D) Withheld to avoid disclosing figures for individual companies

Z: Less than half of the unit of measurement shown.

¹The proportion of product shipments both primary and secondary of the industry represented by primary products.

²This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

³The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3261-- VITREOUS PLUMBING FIXTURES											
ESTABLISHMENTS, TOTAL,	59	5.6	86.5	8.4	16.5	72.6	186.8	84.5	270.0	5.8	31.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	10	(2)	.1	(2)	(2)	.1	.2	.1	.3	(2)	(2)
5 TO 9 EMPLOYEES E8	4	(2)	.5	(2)	(2)	.2	.5	.4	1.0	(2)	.1
10 TO 19 EMPLOYEES E3	4		.1		.1	.4	1.1	.9	1.9	(2)	.3
20 TO 49 EMPLOYEES	4		.2		.1	.2	4.6	1.2	3.0		.1
50 TO 99 EMPLOYEES	5		.4		.3	.6	2.5	7.7	4.8		.4
100 TO 249 EMPLOYEES	17		2.5	2.2	4.3	17.6	44.2	20.0	54.0	2.4	6.8
250 TO 499 EMPLOYEES	9		3.4	2.9	5.7	26.5	70.4	33.3	103.4	1.1	10.9
500 TO 999 EMPLOYEES	5		3.1	2.7	5.5	24.8	63.9	25.5	88.5	1.7	11.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	10	(2)	.2	(2)	(2)	.1	.6	.3	.9	(2)	.1
3262-- VITREOUS CHINA FOOD UTENSILS											
ESTABLISHMENTS, TOTAL,	34	5.9	41.2	4.9	9.3	29.3	67.4	13.7	81.9	1.8	14.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	4	(2)	.1	(2)	(2)	.1	.3	.1	.4	(2)	.1
5 TO 9 EMPLOYEES	2	(2)	.5	(2)	(2)	.2	.6	.1	.8	(2)	.1
10 TO 19 EMPLOYEES	2	(D)		(D)	(D)			(D)		(D)	
20 TO 49 EMPLOYEES	7		.2		.3	.1	3.1		3.1		.1
50 TO 99 EMPLOYEES	3		1.4	.2	.3	1.0	3.1	.3	3.4	(2)	.1
100 TO 249 EMPLOYEES	2	(D)	3.3	(D)	.9	2.3	4.8	.9	5.6		.4
250 TO 499 EMPLOYEES	3	(D)		(D)	(D)			(D)		(D)	
500 TO 999 EMPLOYEES	4		1.3	1.1	2.2	6.2	10.6	3.3	13.9	.4	2.5
1,000 TO 2,499 EMPLOYEES	2		3.8	3.1	5.7	19.5	47.9	8.9	57.8	1.0	10.0
ESTABS. COVERED BY ADMIN. RECORD ¹ .	8	(2)	.2	(2)	(2)	.1	.5	.1	.6	(2)	.1

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3263-- FINE EARTHENWARE FOOD UTENSILS											
ESTABLISHMENTS, TOTAL.	18	6.8	41.4	5.7	10.8	30.8	56.2	18.1	74.3	3.1	18.2
ESTABLISHMENTS WITH AN AVERAGE OF—											
5 TO 9 EMPLOYEES.	1	.1	.5	(Z)	.1	.3	1.9	.5	2.4	(Z)	.5
10 TO 19 EMPLOYEES.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 TO 99 EMPLOYEES.	2	.8	4.5	.7	1.3	3.3	5.1	1.9	7.8	(Z)	1.7
100 TO 249 EMPLOYEES.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES.	5	6.0	36.4	4.9	9.4	27.2	49.1	15.6	64.1	3.0	16.0
1,000 TO 2,499 EMPLOYEES.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3264-- PORCELAIN ELECTRICAL SUPPLIES											
ESTABLISHMENTS, TOTAL.	83	13.4	114.0	10.9	21.9	85.4	190.4	85.5	274.6	7.2	44.2
ESTABLISHMENTS WITH AN AVERAGE OF—											
1 TO 4 EMPLOYEES.	9	(Z)	.1	(Z)	(Z)	.1	.3	.2	.5	(Z)	.1
5 TO 9 EMPLOYEES.	5	(Z)	.3	(Z)	.1	.2	.6	.2	.8	(Z)	.1
10 TO 19 EMPLOYEES.	5	.1	.6	.1	.1	.4	1.3	.6	1.8	.1	.3
20 TO 49 EMPLOYEES.	22	.7	5.1	.6	1.1	3.5	8.4	3.5	11.8	.4	1.7
50 TO 99 EMPLOYEES.	11	.8	5.2	.6	1.2	3.5	8.6	4.0	12.6	.4	2.3
100 TO 249 EMPLOYEES.	19	3.2	25.8	2.6	5.4	19.3	47.5	26.2	73.1	2.3	11.4
250 TO 499 EMPLOYEES.	5	1.9	15.4	1.7	3.4	12.9	33.1	7.8	40.7	1.0	6.0
500 TO 999 EMPLOYEES.	3	1.9	17.5	1.5	3.1	13.2	25.1	19.0	44.8	.8	7.7
1,000 TO 2,499 EMPLOYEES.	4	4.7	44.0	3.7	7.5	32.3	65.6	23.9	88.5	2.0	14.6
ESTABS. COVERED BY ADMIN. RECORD ¹	11	(Z)	.3	(Z)	.1	.2	.5	.3	.8	(Z)	.1
3269-- POTTERY PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL.	426	9.1	52.2	7.6	14.8	37.6	99.9	33.8	134.0	5.2	14.0
ESTABLISHMENTS WITH AN AVERAGE OF—											
1 TO 4 EMPLOYEES.	225	.3	1.6	.3	.6	1.2	4.9	1.8	6.7	.1	.8
5 TO 9 EMPLOYEES.	63	.4	2.0	.4	.7	1.4	4.2	1.9	6.2	.1	.7
10 TO 19 EMPLOYEES.	43	.6	3.1	.5	.9	2.2	6.0	2.5	8.7	.2	1.0
20 TO 49 EMPLOYEES.	47	1.5	7.9	1.2	2.3	5.8	16.0	6.0	21.9	.5	2.0
50 TO 99 EMPLOYEES.	31	2.1	14.1	1.9	3.8	10.5	26.4	9.5	36.3	2.2	3.3
100 TO 249 EMPLOYEES.	8	1.1	6.1	1.0	2.0	4.6	13.9	4.2	17.9	.8	1.9
250 TO 499 EMPLOYEES.	9	3.1	17.4	2.3	4.6	11.8	28.5	7.9	36.4	1.3	4.3
ESTABS. COVERED BY ADMIN. RECORD ¹	256	.8	3.8	.7	1.3	2.8	9.7	3.5	13.2	.2	1.6

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to the industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3261	VITREOUS PLUMBING FIXTURES										
	ENTIRE INDUSTRY.	59	9.6	86.5	8.4	16.5	72.6	186.8	84.5	270.0	5.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	53	8.0	72.2	6.8	13.5	60.8	152.6	68.0	220.4	4.4
3262	VITREOUS CHINA FOOD UTENSILS										
	ENTIRE INDUSTRY.	34	5.9	41.2	4.9	9.3	29.3	67.4	13.7	81.9	1.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	29	4.6	31.5	3.9	7.5	23.4	46.0	10.8	57.5	1.5
3263	FINE EARTHENWARE FOOD UTENSILS										
	ENTIRE INDUSTRY.	18	6.8	41.4	5.7	10.8	30.8	56.2	18.1	74.3	3.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	14	3.9	22.3	3.5	6.8	18.1	30.5	9.8	41.3	2.6
3264	PORCELAIN ELECTRICAL SUPPLIES										
	ENTIRE INDUSTRY.	83	13.4	114.0	10.9	21.9	85.4	190.4	85.5	274.6	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	78	11.7	99.8	9.5	19.0	74.3	163.3	71.3	232.6	6.5
3269	POTTERY PRODUCTS, NEC										
	ENTIRE INDUSTRY.	426	9.1	52.2	7.6	14.8	37.6	99.9	33.8	134.0	5.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	419	8.6	49.3	7.2	13.9	35.3	94.7	31.6	126.7	4.8

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3261	Vitreous plumbing fixtures.....1972..	270.0	228.3	25.5	16.2	90	248.3	228.3	20.0	92
	.....1967..	170.0	142.2	7.6	20.2	95	148.9	142.2	6.7	96
3262	Vitreous china food utensils.....1972..	81.9	72.3	(D)	(D)	¹ 90	82.0	72.3	9.7	88
	.....1967..	67.2	62.0	(D)	(D)	¹ 90	69.6	62.0	7.6	89
3263	Fine earthenware food utensils.....1972..	74.3	56.5	(D)	(D)	¹ 70	58.1	56.5	1.6	97
	.....1967..	47.1	40.0	6.8	.3	86	46.7	40.0	6.7	86
3264	Porcelain electrical supplies.....1972..	274.6	247.0	23.3	4.3	91	259.0	247.0	12.0	95
	.....1967..	225.0	185.7	34.1	5.2	85	188.6	185.7	2.9	98
3269	Pottery products, n.e.c.....1972..	134.0	123.7	4.2	6.1	97	146.9	123.7	23.2	84
	.....1967..	96.1	83.2	2.7	10.3	97	96.0	83.2	12.8	87

(D) Withheld to avoid disclosing figures for individual companies.

¹This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Vitreous plumbing fixtures (SIC 3261)	Vitreous china food utensils (SIC 3262)	Fine earthenware food utensils (SIC 3263)	Porcelain electrical supplies (SIC 3264)	Pottery products, n.e.c. (SIC 3269)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	270.0	81.9	74.3	274.6	134.0	(X)
3261-	Vitreous plumbing fixtures.....	248.3	228.3	-	-	(under 2)	(under 2)	18.9
3262-	Vitreous china food utensils....	82.0	-	72.3	(over 2)	(under 2)	(under 2)	-
3263-	Fine earthenware food utensils..	58.1	-	(under 2)	56.5	-	(under 2)	-
3264-	Porcelain electrical supplies...	259.0	-	(under 2)	-	247.0	-	(10-20)
3269-	Pottery products, n.e.c.....	146.9	(under 2)	(over 2)	1.3	(over 2)	123.7	11.4
	Other product shipments by 4-digit product group:							
3253-	Ceramic wall and floor tile...	(X)	-	-	(over 2)	-	-	(X)
3431-	Metal sanitary ware.....	(X)	(over 2)	-	-	-	-	(X)
3432-	Plumbing fittings and brass goods.....	(X)	(over 2)	-	-	-	-	(X)
3479-	Metal coating and allied services.....	(X)	(over 2)	-	-	-	-	(X)
3483-	Ammunition, except for small arms, n.e.c.....	(X)	(over 2)	-	-	-	-	(X)
3523-	Farm machinery and equipment..	(X)	(over 2)	-	-	-	-	(X)
3561-	Pumps and pumping equipment...	(X)	-	-	-	(over 2)	-	(X)
3643-	Current carrying wiring devices.....	(X)	-	-	-	(over 2)	-	(X)
	Miscellaneous receipts.....	(X)	16.2	(under 2)	(under 2)	4.3	6.1	(X)
93000	Contract and commission work..	(X)	-	(under 2)	-	(under 2)	.1	(X)
99989	Resales.....	(X)	16.2	(under 2)	(under 2)	3.8	5.7	(X)
99980	Other miscellaneous receipts..	(X)	-	.2	-	(under 2)	.3	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3261-	3431 Metal sanitary ware.....	(over 2)	3269-	2771 Greeting card publishing.....	(over 2)
	3639 Household appliances, n.e.c.....	(over 2)		2816 Inorganic pigments.....	(over 2)
3264-	3356 Nonferrous rolling and drawing, n.e.c.....	(over 2)		3823 Process control instruments.....	(over 2)
	3643 Current carrying wiring devices.....	2.2		3832 Optical instruments and lenses.....	(under 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3261- --	VITREOUS PLUMBING FIXTURES, TOTAL.....		(X)	(X)	248.3	(X)	(X)	148.9
32610 10	Plumbing fixtures: As reported in the census of manufactures.....		(X)	(X)	237.9	(X)	(X)	142.7
	As reported on Census Quarterly Form M34E.....		(X)	(X)	224.4	(X)	(X)	129.4
32610 17	Lavatories.....	1,000 units	2,939.0	2,959.4	37.5	2,212.9	2,303.9	25.6
	Water closet bowls:							
32610 18	Syphon jet.....	..do....	4,421.8	4,714.1	74.7	2,976.0	2,962.2	40.2
32610 20	Washdown.....	..do....	94.3	91.0	.8	716.9	756.2	5.7
32610 22	Reverse trap.....	..do....	3,276.8	3,338.3	35.8	1,378.3	1,486.5	15.2
32610 24	Flush tanks.....	..do....	7,203.0	7,153.8	75.6	4,291.7	4,430.8	42.7
32610 51	China and earthenware plumbing fixture accessories and fittings (including towel racks, soap cups, etc.).....		(X)	(X)	7.0	(X)	(X)	3.6
32610 00	Vitreous and semivitreous plumbing fixtures and accessories, n.s.k.....		(X)	(X)	2.5	(X)	(X)	2.2
32610 02	Vitreous and semivitreous plumbing fixtures and accessories, n.s.k., for companies with less than 10 employees. (See note.)..		(X)	(X)	.9	(X)	(X)	.4
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers					
			1972		1967			
			Quantity	Value (million dollars)	Quantity	Value (million dollars)		
3262- --	VITREOUS CHINA FOOD UTENSILS, TOTAL.....		(X)	82.0	(X)	69.6		
32620 --	Vitreous China and Porcelain Table and Kitchen Articles (Feldspar and Bone):							
	Tableware (for serving food and drink):							
32620 14	Household.....	Million dozen pieces.....	2.2	35.0	.6	20.3		
32620 18	Hotel or commercial.....	..do....	5.7	44.0	8.0	46.6		
32620 52	Kitchenware, household or commercial (for cooking, preparing, and storing food and drink).....	..do....	(D)	(D)	.2	1.2		
32620 00	Vitreous china food utensils, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(D)	(X)	1.4		
32620 02	Vitreous china food utensils, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	.6	(X)	.2		
3263- --	FINE EARTHENWARE FOOD UTENSILS.....		(X)	58.1	(X)	46.7		
32630 12	Tableware, household and commercial (for serving food and drink)..	Million dozen pieces.....	13.5	55.6	22.9	44.6		
32630 52	Kitchenware, household and commercial (for cooking, preparing, and storing food and drink).....	..do....	.2	2.5	(S)	2.1		
32630 00	Earthenware (semivitreous) table and kitchen articles, n.s.k.....	..do....	-	-	-	-		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3264- --	PORCELAIN ELECTRICAL SUPPLIES, TOTAL ¹		(X)	259.0	(X)	188.6
32640 --	Porcelain, Steatite, and Other Ceramic Electrical Products: Porcelain electrical products (excluding steatite, alumina, ferrite, beryllia, titanate, etc.): High-voltage porcelain products (wet process porcelain), shipped as complete insulators:					
32640 12	Low-voltage one-piece pintype insulators.....		(X)	5.0	(X)	6.0
32640 13	High-voltage pintype insulators and line posts.....		(X)	9.8	(X)	11.3
	Suspension type insulators:					
32640 14	7-1/2 inch disc and smaller.....	Million units.	4.7	10.3	3.7	8.5
32640 15	Larger than 7-1/2 inch disc.....	do.....	5.3	17.9	6.4	22.8
32640 16	Switch and bus insulators, including cap and pin, and post types.....		(X)	19.9	(X)	20.9
32640 17	All other, including guy strain insulators and spools.....		(X)	12.7	(X)	8.7
32640 18	High-voltage porcelain products (wet process porcelain), shipped as porcelain pieces only for component parts of other electrical equipment.....		(X)	28.7	(X)	22.7
32640 21	All standard dry process electrical porcelain (including cleats, knobs, tubes, outlet and switch box covers, etc.)....		(X)	1.3	(X)	1.1
32640 31	All special dry process electrical porcelain (including porcelain parts for wiring devices, fuses, circuit breakers, radio receiving sets, spark plugs, etc., and electrical refractory porcelain).....		(X)	55.8	(X)	34.5
32640 41	Steatite electrical products.....		(X)	16.4	(X)	13.4
32640 51	Ceramic permanent magnets.....		(X)	6.8		
32640 61	Alumina materials for electronic application.....		(X)	44.7	(X)	26.8
32640 98	Ferrite, except electronic application, beryllia, titanate, and other ceramic electrical products not included above.....		(X)	19.4		
32640 00	Porcelain electrical supplies, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	9.5	(X)	11.6
32640 02	Porcelain electrical supplies, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	.8	(X)	.2

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3269- --	POTTERY PRODUCTS, N.E.C., TOTAL.....	146.9	96.0
32690 --	Pottery Products, N.E.C., Including China Decorating for the Trade: Art, decorative and novelty potteryware, including vases, lamp bases, figures, plaques, book ends, garden pottery, and ash trays:		
32690 11	China and porcelain.....	34.5	25.2
32690 31	Earthenware and stoneware.....	39.0	21.6
32690 41	Stoneware table and kitchen articles, household and commercial (for serving, cooking, preparing, and storing food and drink).....	(D)	1.9
	Other pottery products, not elsewhere classified:		
32690 61	Chemical, technical, and industrial potteryware (including chemical stoneware and porcelain, pyrometric tubes, etc.).....	14.7	15.0
32690 71	Red unglazed earthenware (flowerpots, etc.).....	8.7	5.8
32690 81	All other pottery products, including pyrometric cones, veritas rings, etc.....	6.7	4.0
32690 91	China decorating for trade.....	(D)	1.5
32690 00	Pottery products, n.e.c., n.s.k., for companies with 10 employees or more. (See note.).....	22.3	14.1
32690 02	Pottery products, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....	13.2	6.8

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Includes value of metal fittings when shipped as an integral part of the ceramic product.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

(Not applicable to this report)

**TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972**

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
32610	Vitreous plumbing fixtures.....	248.3	202.8	180.8	196.2	180.1	148.9	143.8	130.5
32620	Vitreous china food utensils.....	82.0	75.6	78.7	80.2	71.2	69.6	51.9	46.9
32630	Fine earthenware food utensils.....	58.1	52.4	51.7	58.3	59.2	46.7	58.2	53.5
32640	Porcelain electrical supplies ²	259.0	227.5	242.7	219.6	200.1	188.6	121.5	91.1
32690	Pottery products, n.e.c.....	146.9	128.9	112.9	107.7	100.0	96.0	81.4	75.0

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Includes value of metal fittings when shipped as an integral part of the ceramic product.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(Not applicable to this report)

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3261.--VITREOUS PLUMBING FIXTURES					
	Purchased fuels and electric energy.....		(X)	5.8	(X)	4.5
	Purchased fuels, total.....		(X)	3.8	(X)	3.2
121005	Coal.....	1,000 s. tons.....	7.9	.1	(D)	(D)
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	51.1	.1	(S)	.2
291141	Distillate.....	...do.....	2.4	(Z)	(D)	(D)
291151	Residual.....	...do.....	48.8	.1	(D)	(D)
131300	Natural gas.....	Billion ft ³	5.4	2.6	5.4	2.3
960011	Other fuels.....		(X)	(Z)	(X)	-
975000	Fuels, n.s.k.....		(X)	.8	(X)	.6
960012	Purchased electric energy.....	Million kWh.....	166.5	2.0	122.2	1.4
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	2.5	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.6	-	3.0	-
	INDUSTRY 3264.--PORCELAIN ELECTRICAL SUPPLIES					
	Purchased fuels and electric energy.....		(X)	6.4	(X)	(NA)
	Purchased fuels, total.....		(X)	3.7	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	8.2	.1	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	49.2	.2	(NA)	(NA)
291141	Distillate.....	...do.....	43.0	.2	(NA)	(NA)
291151	Residual.....	...do.....	6.2	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	4.0	2.7	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.6	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	231.1	2.7	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.0	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

Concrete, Plaster, and Cut Stone Products

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EXPLANATORY TEXT

CONCRETE, PLASTER, AND CUT STONE PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3271—Concrete Block and Brick
- 3272—Concrete Products, Except Block and Brick*
- 3273—Ready-Mixed Concrete
- 3274—Lime
- 3275—Gypsum Products
- 3281—Cut Stone and Stone Products

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3271.—CONCRETE BLOCK AND BRICK

This industry comprises establishments primarily engaged in the manufacture of concrete building block and brick from a combination of cement and aggregate. Contractors primarily engaged in concrete construction are classified in the construction industries, and building materials dealers primarily engaged in mixed and mixing ready-mixed concrete in industry 3273. For a detailed list of products of industry 3271, refer to table 6A, product codes 32710 13 to 32710 51.

*Note that the "short title" for this industry is used throughout the report.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Concrete Block and Brick Industry in 1972 totaled \$856 million. This included shipments of concrete block and brick (primary products) valued at \$677 million, shipments of other products (secondary products) valued at \$51 million, and miscellaneous receipts (mainly resales) of \$128 million.

Shipments of concrete block and brick (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent. Secondary products shipped by this industry in 1972 consisted mainly of concrete products, n.e.c. (\$25 million), and ready-mixed concrete (\$15 million).

Shipments of concrete block and brick (primary products) from establishments classified in industry 3271 in 1972 represented 85 percent (coverage ratio) of these products valued at \$796 million shipped by all industries. In 1967, the coverage ratio was 86 percent. Other industries shipping concrete block and brick consisted mainly of industry 3273, Ready-Mixed Concrete (\$90 million), and industry 3272, Concrete Products, N.E.C. (\$25 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3271, these establishments accounted for 14 percent of value of shipments.

INDUSTRY 3272.—CONCRETE PRODUCTS, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in the manufacture of concrete products, except block and brick, from a combination of cement and aggregate. Contractors primarily engaged in concrete construction work are classified in the construction industries, and establishments primarily engaged in mixing and delivering ready-mixed concrete in

industry 3273. For a detailed list of products of industry 3272, refer to table 6A, product codes 32721 12 to 32723 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Concrete Products, N.E.C., Industry in 1972 totaled \$1,961 million. This included shipments of concrete products, n.e.c., (primary products) valued at \$1,776 million, shipments of other products (secondary products) valued at \$76 million, and miscellaneous receipts (mainly resales) of \$110 million.

Shipments of concrete products, n.e.c., (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 96 percent. Secondary products shipped by this industry in 1972 consisted mainly of concrete block and brick (\$25 million) and ready-mixed concrete (\$24 million).

Shipments of concrete products, n.e.c., (primary products) from establishments classified in industry 3272 in 1972 represented 95 percent (coverage ratio) of these products valued at \$1,865 million shipped by all industries. In 1967, the coverage ratio was 94 percent. Other industries shipping concrete products, n.e.c., consisted mainly of industry 3273, Ready-Mixed Concrete, (\$48 million) and industry 3271, Concrete Block and Brick (\$25 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3272, these establishments accounted for 18 percent of value of shipments.

INDUSTRY 3273.—READY-MIXED CONCRETE

This industry comprises establishments primarily engaged in the manufacture of portland cement concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central-mixed concrete, shrink-mixed concrete, and transit-mixed concrete.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Ready-Mixed Concrete Industry in 1972 totaled \$4,051 million. This included shipments of ready-mixed concrete (primary products) valued at \$3,494 million, shipments of other products

(secondary products) valued at \$282 million, and miscellaneous receipts (mainly resales) of \$275 million.

Shipments of ready-mixed concrete (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of concrete block and brick (\$90 million), construction sand and gravel (\$75 million), concrete products, n.e.c. (\$48 million), and paving mixtures and blocks (\$29 million).

Shipments of ready-mixed concrete (primary products) from establishments classified in industry 3273 in 1972 represented 98 percent (coverage ratio) of these products valued at \$3,579 million shipped by all industries. In 1967, the coverage ratio was also 98 percent. Other industries shipping ready-mixed concrete consisted mainly of industry 3272, Concrete Products, N.E.C., (\$24 million), industry 3271, Concrete Block and Brick (\$15 million), and industry 2951, Paving Mixtures and Blocks (\$15 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3273, these establishments accounted for 18 percent of value of shipments.

INDUSTRY 3274.—LIME

This industry comprises establishments primarily engaged in the manufacture of quicklime, hydrated lime, and "dead burned" dolomite from limestone, dolomite shells, or other substances. For a detailed list of products of industry 3274, refer to table 6A, product codes 32740 11 to 32740 71.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Lime Industry in 1972 totaled \$248 million. This included shipments of lime (primary products) valued at \$219 million, shipments of other products (secondary products) valued at \$26 million, and miscellaneous receipts (mainly resales) of \$2 million.

Shipments of lime (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of crushed and broken limestone at \$19 million.

Shipments of lime (primary products) from establishments classified in industry 3274 in 1972 represented 92 percent (coverage ratio) of these products valued at \$238 million shipped by all industries. In 1967, the coverage ratio was 93 percent. Other industries shipping lime consisted mainly of industry 3297, Nonclay Refractories (over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3274, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3275.—GYPSUM PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of plaster, plasterboard, and other products composed wholly or chiefly of gypsum. For a detailed list of products of industry 3275, refer to table 6A, product codes 32751 11 to 32752 11.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Gypsum Products Industry in 1972 totaled \$640 million. This included shipments of gypsum products (primary products) valued at \$580 million, shipments of other products (secondary products) valued at \$28 million, and miscellaneous receipts of \$33 million.

Shipments of gypsum products (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 96 percent. Secondary products shipped by this industry in 1972 consisted mainly of minerals, ground or treated, (\$10 million) and gypsum (\$8 million).

Shipments of gypsum products (primary products) from establishments classified in industry 3275 in 1972 represented 99 percent (coverage ratio) of these products valued at \$583 million shipped by all industries. In 1967, the coverage ratio was 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on

payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3275, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3281.—CUT STONE AND STONE PRODUCTS

This industry comprises establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in trade industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified as mining. For a detailed list of products of industry 3281, refer to table 6A, product codes 32811 13 to 32813 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Cut Stone and Stone Products Industry in 1972 totaled \$304 million. This included shipments of cut stone and stone products (primary products) valued at \$281 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts (mainly resales) of \$11 million.

Shipments of cut stone and stone products (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent. Secondary products shipped by this industry in 1972 consisted mainly of dimension stone (\$4 million).

Shipments of cut stone and stone products (primary products) from establishments classified in industry 3281 in 1972 represented 98 percent (coverage ratio) of these products valued at \$287 million shipped by all industries. In 1967, the coverage ratio was 99 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3281, these establishments accounted for 24 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3271.--CONCRETE BLOCK AND BRICK															
1972 Census.....	1,388	416	22.8	196.0	15.2	31.5	115.0	438.5	421.8	855.7	46.2	(NA)	88.6	93	85
1971 ASM.....	(NA)	(NA)	21.3	159.9	14.4	29.0	96.6	392.5	383.5	778.4	40.9	396.8	83.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	21.9	151.8	15.1	31.5	94.2	338.2	319.9	653.1	*33.9	385.9	86.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	21.0	152.1	14.2	29.3	90.1	317.7	327.9	644.0	*45.7	364.5	67.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	21.2	146.1	14.6	29.3	86.5	310.9	310.3	621.3	36.5	332.1	60.5	(NA)	(NA)
1967 Census.....	1,599	349	21.1	130.1	14.6	30.6	77.0	274.2	276.1	550.1	30.5	307.2	60.8	92	86
1966 ASM.....	(NA)	(NA)	24.4	137.7	17.0	35.7	82.5	296.7	294.9	585.9	33.3	(NA)	66.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	24.7	133.8	17.5	37.5	80.3	284.8	294.9	578.4	28.0	(NA)	62.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	23.5	121.0	16.2	36.3	73.4	258.5	271.6	530.0	24.3	284.5	60.5	(NA)	(NA)
1963 Census.....	1,841	367	23.8	119.5	16.7	36.1	72.7	245.5	262.8	505.2	31.1	269.0	58.0	92	84
1962 ASM.....	(NA)	(NA)	22.3	110.7	16.2	37.4	67.4	215.3	243.6	459.1	20.5	248.8	50.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	23.2	110.6	17.0	37.7	67.0	214.4	247.7	460.7	21.2	(NA)	49.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	23.9	111.8	17.6	38.1	68.1	212.4	246.8	457.4	24.8	(NA)	49.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	23.5	106.1	17.4	37.4	66.4	221.4	240.2	458.8	22.9	(NA)	48.7	(NA)	(NA)
1958 Census.....	1,796	336	22.8	98.1	16.4	32.9	61.3	190.4	224.3	413.7	22.8	(NA)	46.6	90	83
INDUSTRY 3272.--CONCRETE PRODUCTS, N.E.C.															
1972 Census.....	3,595	923	67.6	570.2	53.5	109.9	401.0	1,190.1	786.4	1,961.4	96.2	(NA)	260.3	96	95
1971 ASM.....	(NA)	(NA)	65.2	512.7	51.9	106.4	365.8	1,058.1	700.1	1,748.8	66.3	722.2	230.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	62.7	457.6	50.3	106.3	327.8	924.6	604.9	1,522.8	75.7	760.5	209.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	58.6	416.5	46.8	100.3	294.7	848.6	558.8	1,407.8	71.8	618.7	180.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	56.6	383.7	45.2	96.0	273.0	816.5	525.1	1,330.6	62.1	575.0	171.0	(NA)	(NA)
1967 Census.....	3,412	802	56.8	351.1	45.4	94.2	247.9	722.6	487.9	1,201.1	73.8	538.3	159.1	96	94
1966 ASM.....	(NA)	(NA)	60.5	338.5	46.7	95.2	238.1	691.9	485.0	1,189.7	67.9	(NA)	153.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	58.3	314.2	45.8	95.2	223.8	636.3	454.4	1,083.1	60.5	(NA)	152.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	54.4	283.5	42.5	89.7	201.7	591.8	407.4	977.5	50.8	438.1	144.8	(NA)	(NA)
1963 Census.....	3,451	716	52.3	266.7	41.1	87.3	190.9	540.0	387.4	925.7	43.5	402.2	126.1	94	94
1962 ASM.....	(NA)	(NA)	49.3	241.8	39.3	85.6	173.4	499.5	373.5	871.6	36.8	379.4	123.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	47.9	222.9	38.1	83.1	156.3	470.9	354.9	822.4	*36.3	(NA)	123.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	48.6	222.4	39.0	85.6	157.5	460.2	366.6	822.5	32.3	(NA)	118.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	47.2	211.8	38.0	79.3	150.9	438.3	358.6	795.2	38.9	(NA)	117.7	(NA)	(NA)
1958 Census.....	3,461	619	46.3	200.2	36.3	73.6	141.6	391.4	332.2	720.1	44.3	(NA)	110.2	94	94
INDUSTRY 3273.--READY-MIXED CONCRETE															
1972 Census.....	4,915	1,328	85.7	809.3	56.9	114.4	497.4	1,756.7	2,291.8	4,050.9	247.8	(NA)	116.1	93	98
1971 ASM.....	(NA)	(NA)	76.7	655.3	54.8	106.1	426.2	1,422.7	1,849.9	3,279.8	135.4	1,590.4	103.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	76.4	598.6	53.5	107.4	391.3	1,275.6	1,653.3	2,944.1	149.7	1,653.9	115.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	74.9	562.3	49.0	102.7	352.6	1,320.6	1,613.8	2,925.3	140.4	1,526.7	107.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	73.1	521.9	48.3	98.2	319.0	1,206.2	1,570.1	2,764.6	115.6	1,464.0	96.0	(NA)	(NA)
1967 Census.....	4,760	1,150	74.5	508.8	49.2	100.7	308.6	1,155.5	1,529.2	2,684.2	136.9	1,367.4	87.0	93	98
1966 ASM.....	(NA)	(NA)	75.4	487.9	49.9	101.4	295.4	1,051.3	1,483.8	2,527.8	143.8	(NA)	76.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	76.2	465.6	50.2	102.4	279.2	1,066.7	1,447.4	2,511.5	135.6	(NA)	70.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	72.3	431.8	46.8	97.4	259.0	996.6	1,319.7	2,310.3	*105.7	1,043.3	71.9	(NA)	(NA)
1963 Census.....	4,621	1,021	71.5	410.5	46.1	96.2	245.0	982.0	1,308.0	2,292.5	106.0	975.8	64.5	92	98
1962 ASM.....	(NA)	(NA)	66.7	381.7	48.0	99.2	245.3	786.5	1,160.3	1,953.7	91.5	895.7	60.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	65.3	360.8	45.8	96.3	228.5	751.6	1,137.2	1,889.3	75.9	(NA)	62.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	64.8	344.5	46.8	96.9	214.3	770.8	1,101.1	1,869.1	70.3	(NA)	63.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	67.6	345.1	48.0	96.2	215.1	770.2	1,134.5	1,903.0	83.1	(NA)	63.5	(NA)	(NA)
1958 Census.....	3,657	949	62.1	303.1	44.2	88.4	202.0	679.4	1,008.8	1,687.2	71.6	(NA)	60.4	92	97
INDUSTRY 3274.--LIME															
1972 Census.....	103	69	5.7	50.0	4.8	10.4	38.9	129.3	109.0	238.1	39.4	(NA)	18.8	89	92
1971 ASM.....	(NA)	(NA)	5.9	48.6	4.7	10.5	37.2	116.9	95.9	212.4	12.8	291.1	20.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	6.3	47.8	4.9	11.0	36.9	111.5	90.4	210.2	18.2	284.9	21.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	6.8	49.3	5.7	11.6	36.1	106.6	99.0	206.1	20.4	*270.0	19.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	6.8	44.9	5.7	12.0	34.7	107.0	80.9	186.4	18.5	*262.4	19.3	(NA)	(NA)
1967 Census.....	116	71	6.8	42.6	5.7	12.0	33.4	100.1	76.8	176.5	17.7	*245.4	15.8	87	93
1966 ASM.....	(NA)	(NA)	7.5	49.1	6.2	13.6	38.1	117.4	80.3	197.9	*22.1	(NA)	17.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	7.3	44.1	5.9	12.6	32.6	110.1	84.6	193.1	15.7	(NA)	16.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	7.0	41.8	5.8	12.4	31.4	103.3	84.0	187.2	21.4	176.9	13.9	(NA)	(NA)
1963 Census.....	125	68	6.8	38.9	5.4	11.4	28.5	95.1	69.0	164.4	14.7	169.3	14.0	82	94
1962 ASM.....	(NA)	(NA)	6.9	38.6	5.7	11.4	29.2	96.8	60.3	155.9	*12.0	160.6	17.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	7.2	38.3	6.0	11.8	28.7	99.7	58.3	157.0	7.0	(NA)	15.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	7.6	39.0	6.2	12.4	29.1	97.8	60.1	156.7	*12.1	(NA)	14.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.4	36.3	6.2	13.1	28.1	91.7	65.6	157.7	*12.7	(NA)	13.3	(NA)	(NA)
1958 Census.....	137	76	7.2	32.8	6.1	12.5	25.5	73.6	57.5	130.9	6.4	(NA)	12.0	83	95

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3275.--GYPSUM PRODUCTS															
1972 Census.....	114	84	11.2	115.5	9.0	21.1	88.7	325.1	317.5	640.3	23.3	(NA)	52.2	95	99
1971 ASM.....	(NA)	(NA)	10.3	99.5	8.2	19.6	75.8	267.2	261.7	526.3	15.8	538.4	50.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	10.4	87.6	8.2	18.4	65.5	210.8	208.4	419.5	12.5	529.5	46.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	10.7	88.2	8.4	19.6	67.1	244.6	212.0	456.8	24.9	517.7	42.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	10.3	79.7	8.2	19.2	60.7	249.8	190.8	439.6	22.3	491.4	41.2	(NA)	(NA)
1967 Census.....	117	78	10.0	70.7	7.8	17.5	52.2	225.6	160.0	387.7	12.9	484.5	39.2	96	98
1966 ASM.....	(NA)	(NA)	11.1	71.2	8.5	19.0	52.5	222.5	170.4	394.4	19.2	(NA)	45.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	11.9	75.8	9.2	20.6	57.0	238.5	189.1	429.1	32.5	(NA)	42.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	12.0	76.0	9.5	21.6	58.1	270.5	183.6	453.9	22.1	422.9	40.2	(NA)	(NA)
1963 Census.....	122	72	11.5	70.3	9.2	20.8	54.5	259.7	164.4	425.1	15.2	402.5	36.5	97	98
1962 ASM.....	(NA)	(NA)	11.9	68.1	9.5	20.7	51.9	242.2	165.0	406.4	32.2	389.3	32.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	11.5	63.6	9.2	19.9	48.3	224.7	154.2	375.2	25.2	(NA)	31.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	12.2	64.6	9.8	21.0	49.0	228.5	157.3	382.1	25.2	(NA)	30.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	12.3	65.9	10.1	22.6	52.1	241.0	171.0	410.6	*22.0	(NA)	28.8	(NA)	(NA)
1958 Census.....	126	63	11.5	58.0	9.4	20.6	45.4	218.0	146.6	364.9	12.1	(NA)	24.4	95	98
INDUSTRY 3281.--CUT STONE AND STONE PRODUCTS															
1972 Census.....	908	192	15.0	109.2	12.6	24.2	84.7	191.4	117.6	304.5	12.6	(NA)	40.7	96	98
1971 ASM.....	(NA)	(NA)	13.6	96.2	11.3	22.3	73.7	163.1	97.2	261.4	7.4	115.0	34.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	14.6	92.6	12.2	24.3	72.3	151.8	95.6	248.7	*9.2	124.7	34.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	15.9	92.9	13.7	27.2	75.0	151.0	92.4	244.4	*6.2	108.3	30.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	16.8	95.2	14.1	28.2	73.8	159.7	90.4	249.4	7.8	120.3	33.1	(NA)	(NA)
1967 Census.....	811	196	16.6	90.8	14.1	28.3	70.9	148.2	88.9	236.4	6.1	118.7	31.5	95	99
1966 ASM.....	(NA)	(NA)	17.2	90.9	14.2	28.4	68.9	135.0	90.6	224.2	*5.4	(NA)	31.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	17.8	90.9	14.6	29.3	69.7	133.7	85.8	219.7	5.3	(NA)	29.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	18.8	90.8	15.7	31.5	70.6	142.8	87.6	231.4	4.5	110.4	31.4	(NA)	(NA)
1963 Census.....	893	211	18.3	85.7	15.3	30.9	66.7	131.5	86.6	217.2	6.7	106.7	31.2	94	99
1962 ASM.....	(NA)	(NA)	21.3	93.7	17.7	36.5	75.5	150.3	84.3	232.1	4.9	101.8	34.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	21.9	93.6	18.1	37.0	75.1	149.3	83.8	229.0	5.5	(NA)	34.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	19.5	82.5	16.1	31.8	64.8	134.3	82.2	215.8	*3.4	(NA)	32.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	19.7	81.4	16.4	33.0	61.7	131.6	79.8	211.5	*5.4	(NA)	29.1	(NA)	(NA)
1958 Census.....	1,001	243	20.3	83.0	17.0	33.1	63.8	129.0	77.1	206.3	8.4	(NA)	29.9	95	97

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3271	Industry 3272	Industry 3273	Industry 3274	Industry 3275	Industry 3281
1972.....	1,300	3,199	3,978	69	44	874
1967.....	1,534	3,055	4,032	78	55	776
1963.....	1,786	3,130	3,999	81	60	857

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3271.--CONCRETE BLOCK AND BRICK											
1972 Census.....	8,596	(NA)	67	2,072	3.65	.49	.72	(NA)	19,232	45	13.92
1971 ASM.....	7,507	18,630	68	2,014	3.33	.49	.70	.51	18,427	41	13.53
1970 ASM.....	6,932	17,620	70	2,086	2.99	.49	.72	.59	15,443	45	10.74
1969 ASM.....	7,243	17,360	68	2,063	3.08	.51	.75	.57	15,129	48	10.84
1968 ASM.....	6,892	15,670	69	2,007	2.95	.50	.73	.53	14,665	47	10.61
1967 Census.....	6,169	14,560	69	2,095	2.52	.50	.74	.56	13,006	47	8.97
1966 ASM.....	5,634	(NA)	70	2,095	2.31	.50	.74	(NA)	12,140	46	8.31
1965 ASM.....	5,408	(NA)	71	2,149	2.14	.51	.74	(NA)	11,511	47	7.59
1964 ASM.....	5,151	12,110	69	2,248	2.02	.51	.74	.54	11,007	47	7.11
1963 Census.....	5,031	11,300	70	2,160	2.02	.52	.76	.53	10,334	49	6.80
1962 ASM.....	4,966	11,160	73	2,306	1.80	.53	.77	.54	9,661	51	5.75
1961 ASM.....	4,766	(NA)	73	2,226	1.78	.54	.78	(NA)	9,240	52	5.68
1960 ASM.....	4,676	(NA)	74	2,169	1.79	.54	.78	(NA)	8,884	53	5.57
1959 ASM.....	4,513	(NA)	74	2,151	1.78	.52	.75	(NA)	9,415	48	5.92
1958 Census.....	4,309	(NA)	72	2,008	1.86	.54	.78	(NA)	8,361	52	5.78
INDUSTRY 3272.--CONCRETE PRODUCTS, N.E.C.											
1972 Census.....	8,435	(NA)	79	2,054	3.65	.40	.69	(NA)	17,605	48	10.83
1971 ASM.....	7,863	11,080	80	2,050	3.44	.40	.69	.41	16,229	49	9.95
1970 ASM.....	7,298	12,530	80	2,113	3.08	.40	.70	.50	14,746	50	8.70
1969 ASM.....	7,108	10,560	80	2,143	2.94	.40	.69	.44	14,481	49	8.46
1968 ASM.....	6,779	10,160	80	2,124	2.84	.39	.68	.43	14,426	47	8.51
1967 Census.....	6,186	9,480	80	2,074	2.63	.41	.70	.45	12,731	49	7.67
1966 ASM.....	5,593	(NA)	77	2,036	2.50	.41	.69	(NA)	11,432	49	7.27
1965 ASM.....	5,385	(NA)	78	2,079	2.35	.42	.71	(NA)	10,905	49	6.68
1964 ASM.....	5,211	8,050	78	2,109	2.25	.42	.71	.45	10,880	48	6.60
1963 Census.....	5,100	7,690	79	2,123	2.19	.42	.71	.43	10,325	49	6.19
1962 ASM.....	4,903	7,700	80	2,176	2.03	.43	.71	.44	10,127	48	5.84
1961 ASM.....	4,650	(NA)	79	2,184	1.88	.43	.70	(NA)	9,822	47	5.66
1960 ASM.....	4,572	(NA)	80	2,195	1.84	.45	.72	(NA)	9,462	48	5.37
1959 ASM.....	4,491	(NA)	81	2,085	1.90	.45	.72	(NA)	9,293	48	5.53
1958 Census.....	4,326	(NA)	78	2,028	1.92	.46	.74	(NA)	8,456	51	5.32
INDUSTRY 3273.--READY-MIXED CONCRETE											
1972 Census.....	9,443	(NA)	66	2,011	4.35	.57	.77	(NA)	20,498	46	15.36
1971 ASM.....	8,544	20,790	71	1,936	4.02	.56	.76	.48	18,549	46	13.41
1970 ASM.....	7,835	21,650	70	2,007	3.64	.56	.76	.56	16,696	47	11.88
1969 ASM.....	7,507	20,380	65	2,096	3.43	.55	.74	.52	17,632	43	12.86
1968 ASM.....	7,140	20,030	66	2,033	3.25	.57	.76	.53	16,501	43	12.28
1967 Census.....	6,827	18,350	66	2,045	3.06	.57	.76	.51	15,513	44	11.48
1966 ASM.....	6,378	(NA)	66	1,997	2.91	.59	.78	(NA)	13,742	46	10.37
1965 ASM.....	6,020	(NA)	66	2,004	2.73	.58	.76	(NA)	13,793	44	10.41
1964 ASM.....	5,974	14,430	65	2,081	2.66	.57	.76	.45	13,787	43	10.23
1963 Census.....	5,740	13,650	64	2,087	2.55	.57	.75	.43	13,730	42	10.20
1962 ASM.....	5,720	13,430	72	2,065	2.47	.59	.79	.46	11,788	49	7.93
1961 ASM.....	5,521	(NA)	70	2,100	2.37	.60	.79	(NA)	11,504	48	7.81
1960 ASM.....	5,314	(NA)	72	2,072	2.21	.59	.77	(NA)	11,891	45	7.96
1959 ASM.....	5,101	(NA)	71	2,005	2.24	.60	.78	(NA)	11,385	45	8.01
1958 Census.....	4,880	(NA)	71	1,999	2.29	.60	.78	(NA)	10,937	45	7.69
INDUSTRY 3274.--LIME											
1972 Census.....	8,772	(NA)	84	2,167	3.74	.46	.67	(NA)	22,684	39	12.43
1971 ASM.....	8,237	49,340	80	2,234	3.54	.45	.68	1.37	19,814	42	11.13
1970 ASM.....	7,587	47,480	78	2,245	3.36	.50	.69	1.42	17,698	43	10.14
1969 ASM.....	7,250	39,710	84	2,035	3.11	.48	.72	1.31	15,676	46	9.19
1968 ASM.....	6,603	38,590	84	2,105	2.89	.43	.67	1.41	15,735	42	8.92
1967 Census.....	6,298	36,090	85	2,100	2.77	.43	.68	1.39	14,794	43	8.33
1966 ASM.....	6,555	(NA)	83	2,189	2.80	.41	.65	(NA)	15,664	42	8.62
1965 ASM.....	6,038	(NA)	80	2,147	2.59	.44	.67	(NA)	15,080	40	8.76
1964 ASM.....	5,929	25,270	82	2,141	2.54	.45	.67	.94	14,655	40	8.35
1963 Census.....	5,740	24,900	79	2,111	2.51	.42	.66	1.03	14,036	41	8.37
1962 ASM.....	5,580	23,280	82	2,021	2.56	.39	.63	1.03	13,984	40	8.47
1961 ASM.....	5,313	(NA)	83	1,976	2.44	.37	.62	(NA)	13,846	38	8.47
1960 ASM.....	5,159	(NA)	81	2,015	2.35	.38	.63	(NA)	12,930	40	7.89
1959 ASM.....	4,930	(NA)	85	2,099	2.15	.42	.65	(NA)	12,456	40	7.01
1958 Census.....	4,559	(NA)	85	2,051	2.04	.44	.69	(NA)	10,243	45	5.88

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3275.--GYPSUM PRODUCTS											
1972 Census.....	10,313	(NA)	80	2,344	4.20	.50	.68	(NA)	29,027	36	15.41
1971 ASM.....	9,660	52,270	80	2,390	3.87	.50	.69	1.02	25,942	37	13.63
1970 ASM.....	8,423	50,910	79	2,244	3.56	.50	.71	1.26	20,269	42	11.46
1969 ASM.....	8,243	48,380	79	2,333	3.42	.46	.66	1.13	22,860	36	12.48
1968 ASM.....	7,738	47,710	80	2,341	3.16	.43	.62	1.12	24,252	32	13.01
1967 Census.....	7,070	48,450	78	2,255	2.98	.41	.60	1.25	22,566	31	12.91
1966 ASM.....	6,403	(NA)	76	2,234	2.77	.43	.61	(NA)	19,998	32	11.73
1965 ASM.....	6,379	(NA)	77	2,249	2.77	.44	.62	(NA)	20,079	32	11.58
1964 ASM.....	6,337	35,240	79	2,284	2.69	.40	.57	.93	22,551	28	12.52
1963 Census.....	6,121	35,000	80	2,253	2.62	.39	.55	.95	22,597	27	12.50
1962 ASM.....	5,733	32,710	80	2,172	2.51	.41	.57	.96	20,386	28	11.72
1961 ASM.....	5,545	(NA)	80	2,163	2.43	.41	.58	(NA)	19,595	28	11.30
1960 ASM.....	5,279	(NA)	80	2,152	2.33	.41	.58	(NA)	18,686	28	10.87
1959 ASM.....	5,356	(NA)	82	2,241	2.30	.42	.58	(NA)	19,593	27	10.66
1958 Census.....	5,041	(NA)	82	2,181	2.20	.40	.56	(NA)	18,957	27	10.58
INDUSTRY 3281.--CUT STONE AND STONE PRODUCTS											
1972 Census.....	7,280	(NA)	84	1,921	3.50	.39	.75	(NA)	12,760	57	7.91
1971 ASM.....	7,074	8,460	83	1,973	3.31	.37	.74	.44	11,993	59	7.31
1970 ASM.....	6,342	8,540	84	1,992	4.76	.38	.76	.50	10,397	61	6.25
1969 ASM.....	5,843	6,810	86	1,985	2.76	.38	.76	.44	9,497	62	5.55
1968 ASM.....	5,667	7,160	84	2,000	2.62	.36	.74	.48	9,506	60	5.66
1967 Census.....	5,474	7,150	85	2,000	2.51	.38	.76	.50	8,932	61	5.24
1966 ASM.....	5,299	(NA)	83	2,000	2.42	.40	.81	(NA)	7,867	67	4.75
1965 ASM.....	5,115	(NA)	82	2,009	2.38	.39	.80	(NA)	7,521	68	4.56
1964 ASM.....	4,817	5,870	83	2,009	2.24	.38	.77	.48	7,579	64	4.54
1963 Census.....	4,675	5,830	83	2,025	2.16	.40	.79	.49	7,168	65	4.26
1962 ASM.....	4,398	4,780	83	2,065	2.07	.36	.77	.44	7,059	62	4.12
1961 ASM.....	4,280	(NA)	83	2,044	2.03	.37	.77	(NA)	6,830	63	4.03
1960 ASM.....	4,238	(NA)	83	1,982	2.03	.38	.76	(NA)	6,904	61	4.22
1959 ASM.....	4,138	(NA)	83	2,006	1.87	.38	.76	(NA)	6,690	62	4.00
1958 Census.....	4,081	(NA)	84	1,945	1.93	.37	.78	(NA)	6,342	64	3.90

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3271-- CONCRETE BLOCK AND BRICK													
UNITED STATES. E1	1 388	416	22.8	196.0	15.2	31.5	115.0	438.5	421.8	855.7	46.2	21.1	274.2
NORTHEAST REGION. E1	291	81	4.9	44.0	3.2	6.7	25.8	99.6	98.8	197.5	(0)	4.7	64.5
NEW ENGLAND DIVISION.	73	19	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.0	15.3
MASSACHUSETTS.	32	7	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
CONNECTICUT.	16	5	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
MIDDLE ATLANTIC DIVISION. E1	218	62	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.7	49.2
NEW YORK. E1	66	15	1.1	11.2	.7	1.5	6.6	25.5	24.1	49.3	(0)	1.1	16.1
NEW JERSEY. E1	50	18	1.0	8.6	.6	1.2	4.5	21.3	23.6	44.8	(0)	.7	10.9
PENNSYLVANIA. E1	102	29	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.0	22.2
NORTH CENTRAL REGION. E1	474	97	6.2	59.6	4.0	8.1	33.6	126.7	118.9	243.8	14.7	6.6	92.7
EAST NORTH CENTRAL DIVISION. E1	335	69	4.5	43.6	3.0	6.0	25.3	96.1	89.0	183.6	10.7	4.6	68.3
OHIO.	82	21	1.2	11.5	.8	1.7	6.8	27.6	22.7	50.0	1.9	1.3	17.2
INDIANA. E1	51	10	.7	6.4	.5	1.0	3.6	13.8	15.0	28.5	(0)	CC	(0)
ILLINOIS. E1	57	12	.9	8.1	.6	1.1	4.9	17.4	15.9	32.6	3.5	CC	(0)
MICHIGAN. E2	88	18	1.1	11.8	.7	1.5	6.9	24.5	25.0	49.4	(0)	1.2	19.8
WISCONSIN. E3	57	8	.6	5.9	.4	.8	3.1	12.9	10.4	23.2	1.4	.6	8.1
WEST NORTH CENTRAL DIVISION. E1	139	28	1.7	16.0	1.0	2.1	8.3	30.6	29.9	60.3	4.0	1.9	24.4
MINNESOTA. E1	42	5	.5	6.2	.3	.6	3.1	11.6	9.6	21.2	2.0	CC	(0)
IOWA. E1	23	5	.3	2.4	.1	.3	1.0	4.3	4.5	8.8	.4	BB	(0)
MISSOURI.	32	8	.4	3.4	.2	.5	1.8	6.8	8.3	15.1	.9	BB	(0)
NEBRASKA.	11	5	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
SOUTH REGION. E1	450	177	8.6	61.3	5.8	12.5	36.1	142.2	149.6	290.3	15.9	7.3	83.8
SOUTH ATLANTIC DIVISION. E1	253	116	5.1	38.5	3.3	7.2	21.3	89.5	96.6	185.3	11.1	4.5	53.8
MARYLAND.	28	15	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
VIRGINIA.	36	20	1.0	7.2	.6	1.4	4.1	18.0	17.0	34.8	1.1	.6	7.4
WEST VIRGINIA. E2	16	6	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
NORTH CAROLINA. E1	46	20	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.9	9.4
SOUTH CAROLINA. E2	19	6	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	3.4
GEORGIA.	40	22	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	8.1
FLORIDA. E2	64	24	1.1	8.7	.7	1.6	4.8	20.8	19.8	40.5	2.3	.9	13.4
EAST SOUTH CENTRAL DIVISION. E2	123	35	2.0	13.6	1.3	2.7	7.9	31.4	33.5	64.3	3.4	1.6	16.1
KENTUCKY. E3	37	9	.5	3.7	.3	.7	2.1	9.0	8.2	17.0	.8	BB	(0)
TENNESSEE. E1	47	13	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
ALABAMA. E2	25	11	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	4.0
MISSISSIPPI. E5	14	2	.2	1.0	.1	.2	.7	2.9	2.5	5.4	.5	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. E1	74	26	1.5	9.2	1.2	2.5	6.8	21.3	19.5	40.7	1.4	1.2	14.0
ARKANSAS. E1	12	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
OKLAHOMA. E3	16	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
TEXAS.	36	18	.9	5.6	.7	1.5	4.0	12.5	12.5	24.7	.9	.8	9.3
WEST REGION.	173	61	3.2	31.1	2.2	4.2	19.5	69.9	54.4	124.0	6.8	2.5	33.2
MOUNTAIN DIVISION.	69	25	1.4	13.4	1.0	2.0	9.3	31.9	26.2	58.2	3.7	.9	11.8
COLORADO. E1	14	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
NEW MEXICO.	12	6	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
ARIZONA.	16	6	.6	6.6	.5	.9	5.2	15.8	13.7	29.7	1.2	.3	4.5
UTAH. E2	8	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
PACIFIC DIVISION. E1	104	36	1.7	17.8	1.2	2.2	10.2	38.0	28.2	65.8	3.1	1.6	21.3
WASHINGTON.	10	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
CALIFORNIA. E1	74	29	1.4	13.5	.9	1.7	7.8	28.5	20.2	48.2	2.2	1.1	14.6
3272-- CONCRETE PRODUCTS, NEC													
UNITED STATES. E1	3 595	923	67.6	570.2	53.5	109.9	401.0	1 190.1	786.4	1 961.4	96.2	56.8	722.6
NORTHEAST REGION. E2	671	172	13.1	118.8	10.0	21.1	31.2	237.8	147.7	384.3	26.2	9.7	(NA)
NEW ENGLAND DIVISION. E2	184	44	3.8	34.3	3.0	6.3	23.6	70.8	44.2	114.6	8.0	2.1	28.9
MAINE.	11	5	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEW HAMPSHIRE. E4	20	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.4
MASSACHUSETTS. E3	76	17	2.0	18.5	1.6	3.3	13.3	35.4	23.0	58.4	4.8	.9	11.7
RHODE ISLAND.	9	2	.2	1.7	.1	.3	1.2	4.6	2.0	6.8	(z)	(NA)	(NA)
CONNECTICUT. E2	58	16	1.0	9.7	.8	1.7	6.3	20.9	12.3	33.1	2.0	.7	10.2
MIDDLE ATLANTIC DIVISION. E2	407	128	9.3	84.3	7.1	14.8	57.6	167.0	103.4	269.7	18.2	7.6	96.4
NEW YORK. E2	193	47	3.1	29.8	2.4	5.0	20.3	58.6	37.5	96.0	10.8	2.6	32.4
NEW JERSEY. E3	104	37	2.8	25.8	2.0	4.2	16.3	52.2	31.1	83.9	3.7	2.7	38.6
PENNSYLVANIA. E2	190	44	3.4	28.7	2.7	5.7	21.0	56.2	34.8	89.8	3.8	2.3	25.4
NORTH CENTRAL REGION. E1	1 148	256	18.4	163.8	14.5	29.5	113.0	335.0	219.4	546.1	24.3	16.1	229.2
EAST NORTH CENTRAL DIVISION. E1	773	162	12.1	113.5	9.5	19.4	77.4	233.2	153.9	379.9	15.6	11.2	164.5
OHIO. E1	206	47	3.6	31.8	2.8	5.8	21.9	67.4	44.6	110.2	3.6	3.2	42.7
INDIANA. E1	130	23	1.8	15.6	1.4	2.9	10.5	30.7	21.0	51.1	2.3	1.5	20.0
ILLINOIS. E1	158	37	2.7	26.1	2.0	4.0	16.8	54.0	30.4	81.3	3.4	2.6	40.3
MICHIGAN. E1	170	33	2.4	24.6	1.9	4.0	17.4	53.3	37.4	89.5	3.3	2.4	39.3
WISCONSIN. E2	109	22	1.6	15.4	1.3	2.7	10.7	27.7	20.5	47.8	3.0	1.5	22.2
WEST NORTH CENTRAL DIVISION. E1	375	94	6.3	50.3	5.1	10.2	35.5	101.9	65.5	166.2	8.7	4.9	64.6
MINNESOTA. E1	115	33	2.2	19.2	1.8	3.8	13.6	37.2	27.9	65.1	3.9	EE	(0)
IOWA. E1	85	14	1.0	7.8	.8	1.6	5.5	15.8	8.8	24.5	.7	EE	(0)
MISSOURI. E3	84	17	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	7.7
NORTH DAKOTA. E1	12	3	.2	1.6	.2	.3	1.2	2.7	1.8	4.4	(0)	(NA)	(NA)
SOUTH DAKOTA. E1	11	5	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.9
NEBRASKA. E3	29	12	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	6.7
KANSAS. E1	39	10	.7	6.2	.6	1.1	4.0	12.4	6.8	19.0	1.0	.5	6.4

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture	
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages							
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3272-- CONCRETE PRODUCTS, NEC--CONTINUED														
SOUTH REGION	E1	1 236	354	24.7	177.0	20.1	42.0	126.8	375.3	267.9	638.0	30.7	21.4	232.4
SOUTH ATLANTIC DIVISION.	E1	668	201	13.7	99.6	11.1	22.5	70.2	205.4	136.5	339.3	17.7	11.9	126.0
MARYLAND	E1	58	22	1.6	13.7	1.4	2.9	10.4	32.8	18.3	51.1	3.0	1.3	19.1
VIRGINIA	E1	79	31	2.1	15.9	1.7	3.5	11.2	28.9	20.4	49.0	2.9	2.0	20.8
WEST VIRGINIA.	E2	21	7	.4	3.0	.4	.7	2.2	5.0	4.2	9.0	.4	.4	3.2
NORTH CAROLINA	E1	95	25	1.7	11.6	1.3	2.8	8.1	24.4	15.3	39.6	2.6	1.6	16.9
SOUTH CAROLINA	E1	38	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	10.7
GEORGIA.	E2	120	33	2.0	15.8	1.6	3.3	10.3	32.6	20.9	52.1	2.4	1.9	18.2
FLORIDA.	E1	246	71	4.8	32.4	3.9	7.7	23.0	67.1	46.9	113.0	5.3	3.6	35.8
EAST SOUTH CENTRAL DIVISION.	E1	237	64	3.9	25.1	3.2	6.5	17.6	59.0	37.4	94.8	4.5	3.4	38.7
KENTUCKY	E2	39	7	.5	2.9	.4	.7	2.1	7.5	4.4	11.6	.7	BB	(D)
TENNESSEE.	E1	69	26	1.5	10.0	1.2	2.7	7.0	20.5	16.1	36.1	2.0	EE	(D)
ALABAMA.	E2	95	17	1.0	6.5	.8	1.5	4.3	15.7	8.0	23.2	.9	1.0	10.1
MISSISSIPPI.	E1	34	14	.9	5.6	.7	1.6	4.3	15.3	9.0	23.9	1.0	.6	8.9
WEST SOUTH CENTRAL DIVISION.	E1	331	89	7.1	52.4	5.9	13.0	39.1	110.8	94.0	203.9	8.5	6.1	67.7
ARKANSAS	E3	39	7	.4	2.8	.4	.7	2.0	7.0	4.3	10.9	.4	.3	2.4
LOUISIANA.	E1	64	16	1.3	9.9	1.1	2.2	7.6	18.9	19.2	37.8	.8	1.6	20.5
OKLAHOMA	E1	36	8	.6	5.8	.5	1.1	3.4	11.4	7.3	18.5	.6	.4	5.6
TEXAS.	E1	192	58	4.8	33.8	4.0	9.0	26.0	73.6	63.3	136.8	6.7	3.8	39.2
WEST REGION.	E1	540	141	11.5	110.8	8.9	17.2	80.0	240.4	152.9	393.0	15.0	9.5	135.7
MOUNTAIN DIVISION.	E1	159	42	3.5	31.7	2.7	5.2	23.3	68.6	40.0	107.4	5.3	2.5	32.5
IDAHO.	E5	17	3	.3	1.8	.2	.4	1.2	4.0	2.6	6.5	(D)	.2	2.6
COLORADO	E1	41	15	1.4	13.2	1.1	2.0	9.9	29.3	14.2	43.4	2.2	.8	10.9
ARIZONA.	E2	40	11	.9	9.6	.7	1.5	6.9	18.0	10.9	28.2	1.7	.5	6.7
UTAH	E1	18	6	.5	4.1	.4	.8	3.0	9.7	7.7	17.1	.8	.4	5.4
PACIFIC DIVISION	E1	381	99	8.0	79.2	6.2	12.0	56.7	171.8	112.9	285.5	9.7	7.0	103.2
WASHINGTON	E1	74	13	1.5	16.3	1.2	2.4	11.7	29.0	24.1	51.9	1.9	1.4	18.0
OREGON	E3	47	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.7
CALIFORNIA	E1	242	71	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	76.0
HAWAII	E1	11	4	.2	2.6	.2	.4	1.9	6.6	3.6	10.0	.1	AA	(D)
3273-- READY-MIXED CONCRETE														
UNITED STATES.	E1	4 915	1 328	85.7	809.3	56.9	114.4	497.4	1 756.7	2 291.8	4 050.9	247.8	74.5	1 155.5
NORTHEAST REGION	E1	639	197	11.9	136.0	7.6	15.4	81.5	275.1	333.5	609.4	28.9	13.0	229.5
NEW ENGLAND DIVISION	E1	161	57	3.1	34.6	2.1	4.3	21.4	73.6	80.9	154.8	9.5	3.4	64.1
MAINE.	E1	21	8	.4	3.3	.3	.7	2.3	7.8	6.4	14.2	.8	.4	4.6
NEW HAMPSHIRE.	E2	14	7	.2	2.3	.2	.4	1.5	7.5	6.9	14.4	1.9	.2	5.6
VERMONT.	E2	10	5	.4	3.5	.2	.3	1.3	6.6	6.1	12.8	1.2	.2	4.4
MASSACHUSETTS.	E1	65	18	1.2	14.8	.8	1.7	9.4	30.6	35.0	65.4	3.3	1.5	27.8
RHODE ISLAND	E1	10	2	.2	1.6	.1	.2	1.0	2.9	4.2	7.1	.4	.2	3.8
CONNECTICUT.	E1	41	17	.7	9.0	.5	1.0	5.9	18.3	22.2	40.9	1.9	.9	17.9
MIDDLE ATLANTIC DIVISION	E1	478	140	8.7	101.4	5.5	11.1	60.1	201.5	252.6	454.6	19.5	9.6	165.4
NEW YORK	E2	214	60	4.5	57.7	2.6	5.1	31.0	102.1	127.7	230.6	10.0	4.8	90.7
NEW JERSEY	E1	79	35	1.7	19.4	1.0	2.2	12.2	43.4	56.3	99.6	3.9	1.7	29.3
PENNSYLVANIA	E1	185	45	2.6	24.3	1.9	3.8	17.0	55.9	68.5	124.3	5.6	3.0	45.5
NORTH CENTRAL REGION	E2	1 699	373	22.8	226.5	15.2	30.0	140.3	467.9	588.9	1 056.6	62.4	21.7	348.1
EAST NORTH CENTRAL DIVISION.	E2	1 014	251	15.0	158.5	10.0	20.1	98.3	326.5	402.6	729.1	44.9	14.6	250.6
OHIO	E1	249	66	3.9	40.4	2.6	5.2	24.9	84.2	108.1	192.4	12.8	4.3	68.2
INDIANA.	E1	148	37	2.3	23.3	1.4	2.7	13.4	50.0	48.9	99.0	6.1	2.3	36.3
ILLINOIS	E2	258	61	3.9	41.9	2.7	5.6	27.5	83.3	115.5	198.7	11.5	3.0	58.3
MICHIGAN	E2	223	55	3.0	32.9	1.9	3.9	19.6	68.8	85.1	153.6	8.9	3.2	57.9
WISCONSIN.	E2	136	32	1.9	20.1	1.3	2.8	12.8	40.1	44.9	85.5	5.6	2.0	29.8
WEST NORTH CENTRAL DIVISION.	E2	685	122	7.8	67.9	5.2	9.9	42.0	141.4	186.4	327.4	17.5	7.1	97.5
MINNESOTA.	E2	121	16	1.4	13.3	.9	1.7	7.9	26.3	35.0	61.2	2.6	EE	(D)
IOWA	E3	168	22	1.6	13.2	1.1	2.3	8.7	27.8	36.4	64.2	3.3	EE	(D)
MISSOURI	E2	159	40	2.4	21.6	1.7	2.9	14.3	42.8	56.9	99.5	4.6	2.2	27.0
NORTH DAKOTA	E2	35	8	.4	2.5	.2	.4	1.4	5.9	5.8	11.7	.9	.2	3.1
SOUTH DAKOTA	E3	38	4	.2	1.7	.2	.4	1.2	4.8	6.0	10.7	1.3	.2	2.6
NEBRASKA	E1	68	12	.7	6.4	.4	.9	3.1	15.8	22.6	38.3	2.5	.7	10.4
KANSAS	E3	96	20	1.0	9.2	.7	1.3	5.3	18.1	23.8	41.9	2.3	1.1	14.6
SOUTH REGION	E1	1 619	510	33.9	265.1	23.1	47.6	164.8	628.4	912.6	1 542.9	100.4	25.2	343.7
SOUTH ATLANTIC DIVISION.	E1	687	282	17.7	142.1	11.8	24.0	86.0	341.0	487.8	829.1	55.6	12.0	162.1
DELAWARE	E1	9	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.2
MARYLAND	E1	54	17	1.3	14.6	.8	1.7	8.5	34.6	45.6	80.1	2.4	1.1	20.3
DISTRICT OF COLUMBIA	E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.3
VIRGINIA	E1	98	30	2.3	16.1	1.5	2.7	10.2	43.8	45.1	88.9	5.8	1.7	24.7
WEST VIRGINIA.	E3	45	17	.8	6.0	.5	1.0	3.7	14.4	18.0	32.3	2.0	.5	5.7
NORTH CAROLINA	E1	123	40	2.3	17.2	1.7	3.4	11.4	42.1	61.1	103.0	6.8	1.6	19.8
SOUTH CAROLINA	E1	46	18	1.2	8.8	.9	2.0	6.3	18.5	30.3	48.8	3.4	.8	9.0
GEORGIA.	E1	110	42	2.8	19.3	1.7	3.3	10.6	43.8	65.5	109.1	7.8	2.3	24.9
FLORIDA.	E1	199	109	6.4	55.5	4.1	9.2	32.0	133.5	208.2	342.4	26.4	3.2	48.1
EAST SOUTH CENTRAL DIVISION.	E2	352	89	5.6	40.8	3.7	7.3	24.1	98.1	122.7	220.4	19.6	5.1	65.3
KENTUCKY	E2	93	20	1.1	9.3	.8	1.4	5.7	19.7	26.5	46.2	2.9	1.0	14.9
TENNESSEE.	E2	93	30	1.6	11.6	1.0	2.0	7.0	33.8	34.9	68.5	5.1	1.7	23.1
ALABAMA.	E1	95	21	1.6	11.3	1.1	2.3	6.6	24.2	35.7	60.0	8.4	1.3	15.1
MISSISSIPPI.	E1	71	18	1.2	8.6	.8	1.5	4.7	20.3	25.6	45.7	3.1	1.0	12.2
WEST SOUTH CENTRAL DIVISION.	E1	580	139	10.6	82.2	7.7	16.3	54.7	189.3	302.1	493.4	25.2	8.2	116.3
ARKANSAS	E3	83	9	.8	5.6	.6	1.2	4.1	13.5	19.1	32.6	25.6	.6	8.2
LOUISIANA.	E2	94	29	2.0	15.0	1.4	2.6	9.0	34.2	52.4	86.6	4.3	1.8	23.8
OKLAHOMA	E1	114	14	1.4	11.2	1.0	2.0	7.2	25.6	36.7	62.2	3.0	1.1	14.6
TEXAS.	E1	289	87	6.4	50.4	4.7	10.4	34.4	115.9	193.9	311.9	15.3	4.7	69.7

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)														
Industry and geographic area		1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
		Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3273-- READY-MIXED CONCRETE--CONTINUED														
WEST REGION.	E1	958	248	17.2	181.7	10.9	21.4	110.7	385.3	456.7	842.0	56.1	14.6	234.3
MOUNTAIN DIVISION.	E1	350	82	6.3	62.6	4.4	8.9	43.8	142.0	131.9	273.8	25.9	4.3	60.0
MONTANA.	E4	45	3	.4	3.3	.3	.6	2.5	8.1	7.0	15.1	.9	.3	3.6
IDAH0.	E2	39	8	.6	4.9	.4	.7	2.9	11.0	10.2	21.1	1.6	.5	6.0
WYOMING.	E1	26	7	.4	3.0	.3	.6	2.3	6.6	4.6	11.2	.5	.2	2.6
COLORADO.	E2	90	15	1.3	12.9	.8	1.5	8.2	30.5	48.4	78.8	6.2	1.0	14.9
NEW MEXICO.	E3	33	7	.6	5.0	.4	.8	3.2	10.9	11.2	22.1	2.6	.4	4.3
ARIZONA.	E2	58	22	1.9	22.5	1.5	3.1	17.4	44.0	27.4	71.6	11.5	1.1	15.6
UTAH.	E1	39	11	.7	5.3	.4	.9	3.8	18.1	13.7	31.7	1.6	.6	9.0
NEVADA.	E1	20	9	.5	5.6	.3	.6	3.5	12.9	9.5	22.3	1.0	.3	4.1
PACIFIC DIVISION.	E1	608	166	11.0	119.1	6.5	12.5	67.0	243.3	324.8	568.3	30.3	10.3	174.3
WASHINGTON.	E1	85	28	1.7	17.3	1.1	2.0	9.6	28.9	32.6	61.4	3.0	2.4	40.1
OREGON.	E2	80	12	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	18.2
CALIFORNIA.	E1	426	120	7.4	80.4	4.1	7.9	42.7	171.8	244.5	416.6	16.0	6.2	106.7
ALASKA.	E1	11	2	.2	3.4	.1	.2	2.0	3.8	5.9	9.8	1.0	(NA)	(NA)
HAWAII.	E1	6	4	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)	(D)
3273-02 WITHOUT A MINE OR QUARRY														
UNITED STATES.		4 635	1 170	74.3	686.1	48.8	98.0	414.3	1 508.6	2 073.8	3 584.6	206.8	(NA)	(NA)
NORTHEAST REGION.	E1	577	159	9.8	109.1	6.4	12.8	66.5	229.4	287.3	516.9	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	E1	137	44	2.4	25.4	1.6	3.1	15.3	56.6	65.3	122.3	(D)	(NA)	(NA)
MAINE.	E2	15	5	.3	2.2	.2	.4	1.5	5.1	4.1	9.1	(D)	(NA)	(NA)
NEW HAMPSHIRE.	E2	14	7	.2	2.3	.2	.4	1.5	7.5	6.9	14.4	(D)	(NA)	(NA)
VERMONT.	E3	9	4	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	E1	54	12	.8	9.1	.5	.9	5.1	20.9	25.4	46.4	(D)	(NA)	(NA)
CONNECTICUT.	E1	37	15	.6	7.9	.4	.9	5.2	15.8	19.7	35.9	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	E1	440	115	7.4	83.8	4.8	9.7	51.2	172.8	222.0	394.6	(D)	(NA)	(NA)
NEW YORK.	E2	190	42	3.6	44.3	2.2	4.3	24.9	85.3	108.0	193.3	(D)	(NA)	(NA)
NEW JERSEY.	E1	70	31	1.4	15.8	.8	1.8	9.9	34.7	48.5	83.1	(D)	(NA)	(NA)
PENNSYLVANIA.	E1	180	42	2.5	23.6	1.8	3.6	16.5	52.8	65.6	118.3	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	E2	1 621	339	21.1	210.2	14.0	27.6	129.3	432.5	560.3	992.9	56.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	E2	969	228	13.9	147.3	9.2	18.5	90.6	301.3	384.0	685.7	40.7	(NA)	(NA)
OHIO.	E1	238	57	3.6	37.2	2.4	4.7	22.7	77.4	102.7	180.2	11.9	(NA)	(NA)
INDIANA.	E1	141	34	2.2	21.7	1.3	2.5	12.4	45.6	46.6	92.2	5.3	(NA)	(NA)
ILLINOIS.	E2	254	59	3.8	41.2	2.7	5.4	26.9	82.0	112.9	194.8	(D)	(NA)	(NA)
MICHIGAN.	E2	211	51	2.7	29.7	1.8	3.6	17.8	61.3	80.3	141.4	(D)	(NA)	(NA)
WISCONSIN.	E2	125	27	1.7	17.6	1.1	2.3	10.8	35.1	41.6	77.0	4.5	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	E2	652	111	7.2	62.9	4.8	9.1	38.7	131.2	176.3	307.2	16.0	(NA)	(NA)
MINNESOTA.	E2	110	15	1.2	11.4	.8	1.4	6.8	22.2	31.1	53.4	2.3	(NA)	(NA)
IOWA.	E3	162	20	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	E2	158	39	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH DAKOTA.	E3	31	4	.3	1.8	.1	.3	1.0	4.0	4.9	8.8	(D)	(NA)	(NA)
SOUTH DAKOTA.	E3	36	4	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA.	E1	67	12	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS.	E3	88	17	.9	8.2	.6	1.1	4.6	16.5	21.7	38.1	1.8	(NA)	(NA)
SOUTH REGION.	E1	1 597	491	31.5	246.1	21.3	44.4	150.8	580.4	859.6	1 442.0	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	E1	678	274	16.4	130.1	10.7	22.1	76.4	310.0	457.4	767.6	(D)	(NA)	(NA)
DELAWARE.	E1	9	7	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND.	E1	52	15	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DISTRICT OF COLUMBIA.	E1	3	2	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA.	E1	97	29	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA.	E4	44	16	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA.	E1	123	40	2.3	17.2	1.7	3.4	11.4	42.1	61.1	103.0	(D)	(NA)	(NA)
SOUTH CAROLINA.	E1	46	18	1.2	8.8	.9	2.0	6.3	18.5	30.3	48.8	(D)	(NA)	(NA)
GEORGIA.	E1	109	41	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	E1	195	106	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	E2	349	87	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY.	E2	93	20	1.1	9.3	.8	1.4	5.7	19.7	26.5	46.2	(D)	(NA)	(NA)
TENNESSEE.	E2	93	30	1.6	11.6	1.0	2.0	7.0	33.8	34.9	68.5	(D)	(NA)	(NA)
ALABAMA.	E1	93	20	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	E2	70	17	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	E1	570	130	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS.	E3	81	7	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	E2	92	27	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA.	E1	114	14	1.4	11.2	1.0	2.0	7.2	25.6	36.7	62.2	(D)	(NA)	(NA)
TEXAS.	E1	283	82	5.9	47.3	4.3	9.8	32.1	108.3	183.3	293.6	(D)	(NA)	(NA)
WEST REGION.	E2	840	181	11.9	120.7	7.1	13.3	67.7	266.2	366.5	632.7	34.2	(NA)	(NA)
MOUNTAIN DIVISION.	E2	284	43	3.3	30.1	2.1	3.9	18.8	71.7	86.5	158.1	(D)	(NA)	(NA)
MONTANA.	E6	37	1	.2	1.8	.2	.3	1.2	5.0	5.2	10.2	.5	(NA)	(NA)
IDAH0.	E5	32	3	.3	2.0	.2	.3	1.2	4.4	5.8	10.2	.4	(NA)	(NA)
WYOMING.	E2	23	4	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO.	E2	77	9	1.0	9.4	.6	1.0	5.6	22.3	39.8	62.1	3.0	(NA)	(NA)
NEW MEXICO.	E6	29	4	.3	2.3	.2	.3	1.3	4.9	6.7	11.6	(D)	(NA)	(NA)
ARIZONA.	E2	38	7	.5	5.3	.3	.6	3.3	11.4	8.6	19.9	1.8	(NA)	(NA)
UTAH.	E1	31	8	.4	3.3	.3	.6	2.5	9.1	9.4	18.5	1.1	(NA)	(NA)
NEVADA.	E1	17	7	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	E2	556	138	8.6	90.6	4.9	9.4	48.8	194.6	280.0	474.6	(D)	(NA)	(NA)
WASHINGTON.	E2	67	17	1.0	10.1	.6	1.1	5.6	17.8	23.6	41.3	(D)	(NA)	(NA)
OREGON.	E3	66	7	.8	7.8	.6	1.1	5.4	17.0	18.5	35.5	(D)	(NA)	(NA)
CALIFORNIA.	E2	409	110	6.5	69.7	3.6	7.0	36.7	152.2	226.8	379.2	(D)	(NA)	(NA)
HAWAII.	E1	5	3	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
3273-- READY-MIXED CONCRETE--CONTINUED													
3273-11 WITH A MINE OR QUARRY													
UNITED STATES	280	158	11.4	123.2	8.1	16.4	83.1	248.1	218.0	466.3	41.0	(NA)	(NA)
NORTHEAST REGION	62	38	2.1	26.9	1.2	2.6	15.0	45.6	46.2	92.4	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	24	13	.8	9.2	.5	1.2	6.1	17.0	15.7	32.5	(D)	(NA)	(NA)
MASSACHUSETTS	11	6	.4	5.7	.3	.7	4.3	9.6	9.6	19.0	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	38	25	1.3	17.7	.7	1.4	8.9	28.6	30.5	59.9	(D)	(NA)	(NA)
NEW YORK	24	18	.9	13.4	.4	.8	6.1	16.8	19.7	37.3	(D)	(NA)	(NA)
NEW JERSEY	9	4	.3	3.6	.2	.4	2.3	8.7	7.9	16.6	(D)	(NA)	(NA)
NORTH CENTRAL REGION	78	34	1.6	16.2	1.2	2.4	11.1	35.4	28.6	63.7	5.6	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	45	23	1.1	11.2	.8	1.6	7.7	25.2	18.5	43.5	4.1	(NA)	(NA)
OHIO	11	9	.4	3.2	.3	.5	2.3	6.8	5.4	12.1	.9	(NA)	(NA)
MICHIGAN	12	4	.2	3.2	.2	.3	1.9	7.6	4.8	12.2	(D)	(NA)	(NA)
WISCONSIN	11	5	.2	2.5	.2	.5	2.0	5.1	3.4	8.4	1.2	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	33	11	.6	5.0	.4	.8	3.3	10.2	10.1	20.2	1.5	(NA)	(NA)
MINNESOTA	11	1	.2	1.9	.1	.2	1.1	4.0	3.8	7.9	.3	(NA)	(NA)
KANSAS	8	3	.2	1.0	.1	.2	.7	1.6	2.1	3.8	.5	(NA)	(NA)
SOUTH REGION	22	19	2.3	19.0	1.8	3.3	14.0	48.0	53.0	100.9	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION	9	8	1.3	12.0	1.0	2.0	9.6	31.0	30.4	61.5	(D)	(NA)	(NA)
VIRGINIA	1	1	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	3	2	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	6	5	.5	3.1	.4	.7	2.3	7.6	10.6	18.2	(D)	(NA)	(NA)
WEST REGION	116	67	5.3	61.0	3.9	8.1	43.0	119.1	90.2	209.3	21.9	(NA)	(NA)
MOUNTAIN DIVISION	66	39	3.0	32.5	2.3	4.9	24.9	70.3	45.5	115.7	(D)	(NA)	(NA)
MONTANA	8	2	.2	1.5	.1	.3	1.3	3.1	1.6	4.9	.4	(NA)	(NA)
IDAH0	7	5	.3	2.8	.2	.4	1.7	6.6	4.4	10.9	1.1	(NA)	(NA)
COLORADO	13	6	.4	3.5	.2	.5	2.5	8.2	8.6	16.7	3.2	(NA)	(NA)
NEW MEXICO	4	3	.3	2.7	.2	.5	1.8	6.0	4.5	10.5	(D)	(NA)	(NA)
ARIZONA	20	15	1.5	17.1	1.2	2.5	14.1	32.6	18.8	51.6	9.7	(NA)	(NA)
UTAH	8	3	.2	2.0	.1	.3	1.2	9.1	4.3	13.2	.5	(NA)	(NA)
PACIFIC DIVISION	52	28	2.3	28.5	1.6	3.2	18.1	48.7	44.8	93.6	(D)	(NA)	(NA)
WASHINGTON	18	11	.6	7.2	.4	.8	4.0	11.1	9.0	20.0	(D)	(NA)	(NA)
OREGON	14	5	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	17	10	.9	10.7	.5	1.0	6.0	19.6	17.7	37.3	(D)	(NA)	(NA)
HAWAII	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3274-- LIME													
UNITED STATES	103	69	5.7	50.0	4.8	10.4	38.9	129.3	109.0	238.1	39.9	6.8	100.1
NORTHEAST REGION	10	6	.5	5.2	.5	1.0	4.2	16.0	11.0	27.1	.8	1.4	17.3
MIDDLE ATLANTIC DIVISION	10	6	.5	5.2	.5	1.0	4.2	16.0	11.0	27.1	.8	EE	(D)
PENNSYLVANIA	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION	34	26	2.6	24.0	2.2	4.7	18.7	58.8	56.7	115.1	22.0	2.7	45.2
EAST NORTH CENTRAL DIVISION	27	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	30.4
OHIO	10	9	.9	8.1	.7	1.5	6.1	19.2	18.1	37.3	4.9	1.1	19.7
ILLINOIS	7	6	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	15.8
MISSOURI	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	36	25	2.0	15.1	1.7	3.7	11.4	38.6	28.1	66.6	12.5	2.0	25.6
SOUTH ATLANTIC DIVISION	17	9	.8	6.7	.7	1.5	5.2	19.2	14.2	33.3	(D)	.6	8.2
VIRGINIA	5	4	FB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION	8	6	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	6.4
WEST SOUTH CENTRAL DIVISION	11	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS	7	6	.5	3.7	.4	.9	2.6	9.5	4.5	13.9	.6	.7	6.8
WEST REGION	23	12	.6	5.7	.5	1.0	4.6	15.9	13.2	29.3	3.6	.7	11.0
MOUNTAIN DIVISION	13	8	.3	3.1	.3	.6	2.5	9.5	7.4	17.0	(D)	.4	6.9
PACIFIC DIVISION	10	4	.3	2.6	.2	.4	2.1	6.4	5.8	12.3	(D)	.3	4.1
CALIFORNIA	6	2	.2	1.9	.2	.3	1.5	5.2	3.6	9.0	(D)	BB	(D)
3274-02 WITHOUT A MINE OR QUARRY													
UNITED STATES	63	34	2.0	17.1	1.6	3.5	13.4	50.3	58.5	108.6	28.4	(NA)	(NA)
NORTHEAST REGION	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	22	15	.8	7.6	.7	1.5	6.1	24.1	34.7	58.7	15.4	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	18	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	6	5	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

and footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3274-- LIME--CONTINUED													
3274-02 WITHOUT A MINE OR QUARRY--CON.													
SOUTH REGION	20	10	.7	5.8	.6	1.3	4.6	16.3	12.1	28.4	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	10	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3274-11 WITH A MINE OR QUARRY													
UNITED STATES	40	35	1.7	32.0	1.2	6.6	25.5	70.0	50.5	129.6	11.0	(NA)	(NA)
NORTHEAST REGION	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	12	11	1.7	16.4	1.5	3.1	12.6	34.7	21.9	56.5	7.2	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	9	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	16	15	1.3	9.2	1.1	2.4	6.6	22.3	15.9	38.2	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	6	6	.6	4.1	.5	1.1	3.0	10.3	5.3	15.5	(D)	(NA)	(NA)
TEXAS	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3275-- GYPSUM PRODUCTS													
UNITED STATES	114	84	11.2	115.5	9.0	21.1	88.7	325.1	317.5	640.3	23.3	10.0	25.6
NORTHEAST REGION	23	10	2.4	25.2	1.9	4.6	20.1	52.4	65.7	117.6	3.5	2.3	45.4
NEW ENGLAND DIVISION	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	20	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK	13	8	1.4	15.3	1.2	2.7	12.3	28.7	33.7	61.8	1.6	EE	(D)
NEW JERSEY	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	8.7
PENNSYLVANIA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION	23	17	2.7	28.6	2.2	5.2	22.1	87.9	72.2	159.6	3.8	2.8	71.4
EAST NORTH CENTRAL DIVISION	16	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	42.3
OHIO	4	3	.4	4.3	.3	.8	3.4	12.8	9.0	21.6	.4	.4	10.3
INDIANA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	29.1
IOWA	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KANSAS	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION	37	27	4.0	38.7	3.2	7.4	29.1	123.1	109.0	231.6	9.1	3.2	75.0
SOUTH ATLANTIC DIVISION	16	13	1.9	18.5	1.5	3.5	14.4	64.1	59.2	122.8	(D)	1.7	39.9
MARYLAND	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
VIRGINIA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
GEORGIA	5	4	.5	5.8	.4	1.1	4.8	17.2	18.8	35.9	.3	.5	11.4
FLORIDA	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	8.3
WEST SOUTH CENTRAL DIVISION	20	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ARKANSAS	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS	11	8	1.0	11.0	0.8	2.0	8.5	29.6	28.2	58.0	1.4	.9	19.7
WEST REGION	31	22	2.1	23.0	1.7	3.9	17.4	61.7	70.6	131.6	7.0	1.7	33.8
MOUNTAIN DIVISION	12	11	1.1	10.8	.8	1.9	7.8	23.0	25.9	48.8	(D)	.8	13.3
WYOMING	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NEVADA	3	3	.4	4.4	.3	.7	3.1	7.5	10.2	17.8	(D)	.4	3.6
PACIFIC DIVISION	19	11	1.0	12.2	.6	2.0	9.6	38.7	44.7	82.8	(D)	.9	20.5
CALIFORNIA	10	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3275-02 WITHOUT A MINE OR QUARRY													
UNITED STATES	78	48	5.6	59.9	4.5	10.6	46.1	175.9	193.7	367.7	13.7	(NA)	(NA)
NORTHEAST REGION	20	13	1.8	19.2	1.4	3.4	15.0	41.6	54.5	95.8	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	17	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3275-- GYPSUM PRODUCTS--CONTINUED													
3275-02 WITHOUT A MINE OR QUARRY--CON.													
NORTH CENTRAL REGION	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	27	17	2.1	21.2	1.7	4.0	16.4	76.5	70.4	146.2	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	15	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	5	4	.5	5.8	.4	1.1	4.8	17.2	18.8	35.9	(D)	(NA)	(NA)
FLORIDA	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	11	5	.4	4.0	.3	.8	3.0	15.3	13.7	28.8	(D)	(NA)	(NA)
LOUISIANA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	21	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	18	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3275-11 WITH A MINE OR QUARRY													
UNITED STATES.	36	36	5.6	55.6	4.5	10.4	42.6	149.2	123.7	272.6	9.7	(NA)	(NA)
NORTHEAST REGION	3	3	.6	6.0	.5	1.2	5.0	10.8	11.2	21.8	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	3	3	.6	6.0	.5	1.2	5.0	10.8	11.2	21.8	(D)	(NA)	(NA)
NEW YORK	3	3	.6	6.0	.5	1.2	5.0	10.8	11.2	21.8	(D)	(NA)	(NA)
NORTH CENTRAL REGION	13	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	10	10	1.9	17.5	1.5	3.3	12.7	46.6	38.6	85.4	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	10	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION.	9	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WYOMING	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEVADA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3281-- CUT STONE AND STONE PRODUCTS													
UNITED STATES. E2	908	192	15.0	109.2	12.6	24.2	84.7	191.4	117.6	304.5	12.6	16.6	148.2
NORTHEAST REGION E2	288	59	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW ENGLAND DIVISION E1	152	35	3.0	24.7	2.5	5.0	19.0	42.4	28.2	68.9	3.0	FF	(D)
NEW HAMPSHIRE	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.9
VERMONT E1	90	26	2.0	15.8	1.7	3.3	12.7	27.7	20.1	47.3	1.1	EE	(D)
MASSACHUSETTS E1	29	4	.5	4.2	.4	.7	2.7	7.0	3.6	9.7	.2	.5	5.6
CONNECTICUT E9	16	1	.2	1.4	.1	.3	1.1	2.9	1.7	4.3	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . E3	136	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK E3	68	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PENNSYLVANIA E3	49	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION E1	215	50	4.3	34.4	3.5	6.7	26.3	60.0	36.1	94.8	2.3	5.7	53.3
EAST NORTH CENTRAL DIVISION. . E2	138	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	28.4
OHIO E3	37	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	4.9
INDIANA	36	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	15.0
ILLINOIS E3	28	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.7
MICHIGAN E2	16	3	.2	1.3	.1	.2	.9	2.9	1.4	4.3	(D)	(NA)	(NA)
WISCONSIN E2	21	3	.3	1.7	.2	.4	1.4	3.6	1.4	5.0	.1	.3	3.1
WEST NORTH CENTRAL DIVISION. . .	77	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	23.1
MINNESOTA	28	15	1.2	11.5	.9	1.9	8.9	21.5	16.5	36.7	.5	EE	(D)
MISSOURI E1	21	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.0
KANSAS E2	13	3	.2	1.0	.2	.3	.8	1.7	.8	2.5	.1	.3	1.6
SOUTH REGION E2	295	70	5.1	32.1	4.4	8.6	25.2	54.3	32.1	85.5	2.5	4.9	39.1
SOUTH ATLANTIC DIVISION. E2	167	45	3.4	21.6	2.9	5.7	17.1	35.7	19.5	54.4	1.6	3.4	26.8
VIRGINIA E6	10	4	.2	1.3	.2	.3	1.0	2.1	.9	3.0	.1	.3	2.6
NORTH CAROLINA E1	21	6	.6	3.7	.5	.9	2.8	5.4	2.5	7.8	.4	CC	(D)
GEORGIA E1	94	32	2.3	14.3	2.0	3.9	11.6	24.6	14.3	38.0	.8	2.2	17.7

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3281-- CUT STONE AND STONE PRODUCTS--CON.													
SOUTH REGION--CON.													
EAST SOUTH CENTRAL DIVISION. . . E4	47	7	.8	4.3	.7	1.4	3.5	8.6	5.9	14.5	0.4	EE	7.4
TENNESSEE. E3	26	3	.4	2.0	.3	.6	1.6	3.4	2.8	6.2	(D)	CC	(D)
MISSISSIPPI. E3	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. . . E3	81	18	1.0	6.2	.8	1.4	4.6	10.1	6.6	16.6	.6	CC	(D)
OKLAHOMA. E2	12	4	.2	1.0	.2	.3	.7	1.6	.9	2.4	.1	(NA)	(NA)
TEXAS. E3	54	12	.7	4.6	.5	1.0	3.4	7.4	4.8	12.2	.4	.4	3.5
WEST REGION. E5	110	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MOUNTAIN DIVISION. E4	35	3	.2	1.1	.2	.3	.9	2.5	1.1	3.6	.2	(NA)	(NA)
PACIFIC DIVISION. E5	75	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	6.0
CALIFORNIA. E5	60	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.3
3281-11 WITH A MINE OR QUARRY													
UNITED STATES.	64	42	4.1	30.1	3.6	7.2	24.1	47.3	22.0	68.1	1.8	(NA)	(NA)
NORTHEAST REGION.	16	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	7	3	.8	6.6	.7	1.5	5.1	10.0	4.5	13.5	(D)	(NA)	(NA)
VERMONT.	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	25	16	1.5	11.7	1.3	2.5	8.9	18.9	8.1	27.2	.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	12	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	5	3	.2	1.2	.2	.3	1.0	2.5	.8	3.3	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	13	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	19	15	1.4	8.6	1.2	2.5	7.2	13.0	6.6	19.4	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	14	10	1.0	6.3	.9	1.8	5.2	9.5	4.1	13.4	(D)	(NA)	(NA)
NORTH CAROLINA.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	10	8	.7	4.1	.6	1.2	3.6	6.5	3.1	9.4	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3281-25 WITHOUT A MINE OR QUARRY													
UNITED STATES.	844	150	10.9	79.1	9.0	17.0	60.6	144.1	95.6	236.4	10.9	(NA)	(NA)
NORTHEAST REGION. E3	272	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. E2	145	32	2.2	18.1	1.8	3.5	13.9	32.4	23.7	55.4	(D)	(NA)	(NA)
NEW HAMPSHIRE.	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VERMONT. E1	87	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. E3	26	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. E9	16	1	.2	1.4	.1	.3	1.1	2.9	1.7	4.3	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. E4	127	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK. E3	64	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. E4	44	6	.4	2.5	.3	.6	1.9	4.9	2.5	7.5	(D)	(NA)	(NA)
NORTH CENTRAL REGION. E1	190	34	2.8	22.7	2.3	4.2	17.4	41.1	28.0	67.6	1.5	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . E3	126	18	1.4	10.5	1.2	2.1	8.2	18.7	10.8	29.3	.9	(NA)	(NA)
OHIO. E6	35	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA.	32	11	.7	4.6	.6	.9	3.7	6.8	4.1	11.0	.4	(NA)	(NA)
ILLINOIS. E3	27	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN. E2	16	3	.2	1.3	.1	.2	.9	2.9	1.4	4.3	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . E1	64	16	1.4	12.2	1.0	2.1	9.2	22.4	17.2	38.3	.6	(NA)	(NA)
MINNESOTA.	25	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS. E2	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. E3	276	55	3.8	23.5	3.2	6.1	18.0	41.3	25.5	66.1	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION. E2	153	35	2.4	15.3	2.0	3.9	12.0	26.2	15.4	41.0	(D)	(NA)	(NA)
VIRGINIA.	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA. E2	19	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA. E2	84	24	1.6	10.3	1.4	2.7	8.1	18.1	11.2	28.7	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . E5	45	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. E4	25	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI. E3	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . E4	78	15	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA. E3	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. E4	52	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. E6	106	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION. E6	33	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. E6	73	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. E6	58	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes on next page.

TABLE 3. Detailed Statistics: 1972—Continued

(See appendix, Explanation of Terms)

Item	Gypsum products (SIC 3275)			Cut stone and stone products (SIC 3281)		
	Total	Establishments without mining or quarrying activity (SIC 3275-02)	Establishments with mining or quarrying activity (SIC 3275-11)	Total	Establishments with mining or quarrying activity (SIC 3281-11)	Establishments without mining or quarrying activity (SIC 3281-25)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	95	95	96	96	87	98
COVERAGE RATIO ²	99	(X)	(X)	98	(X)	(X)
ESTABLISHMENTS, TOTAL NUMBER	114	78	36	908	64	844
WITH 1 TO 19 EMPLOYEES	30	30	—	716	22	694
WITH 20 TO 99 EMPLOYEES	24	18	6	168	33	135
WITH 100 EMPLOYEES OR MORE	60	30	30	24	9	15
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	11.2	5.6	5.6	15.0	4.1	10.9
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	115.5	59.9	55.6	109.2	30.1	79.1
PRODUCTION WORKERS:						
AVERAGE FOR YEAR 1,000	9.0	4.5	4.5	12.6	3.6	9.0
MARCH	8.5	4.2	4.3	12.4	3.6	8.9
MAY	8.9	4.4	4.4	12.9	3.6	9.2
AUGUST	9.3	4.6	4.7	12.8	3.6	9.2
NOVEMBER	9.2	4.6	4.7	12.4	3.5	8.9
MAN-HOURS MILLIONS	21.1	10.6	10.4	24.2	7.2	17.0
JANUARY-MARCH	5.0	2.5	2.5	5.8	1.8	4.0
APRIL-JUNE	5.2	2.7	2.6	6.5	1.9	4.6
JULY-SEPTEMBER	5.5	2.8	2.7	6.1	1.8	4.3
OCTOBER-DECEMBER	5.4	2.7	2.7	5.9	1.7	4.2
WAGES MILLION DOLLARS	88.7	46.1	42.6	84.7	24.1	60.6
COST OF MATERIALS, ETC., TOTAL	317.5	193.7	123.7	117.6	22.0	95.6
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED	257.9	155.3	102.5	96.3	18.1	78.3
COST OF REALES	24.9	18.1	6.8	7.3	1.1	6.2
FUELS CONSUMED	23.1	13.4	9.7	2.7	.7	2.0
PURCHASED ELECTRIC ENERGY	11.6	6.9	4.8	4.2	1.3	2.9
CONTRACT WORK	(2)	(2)	—	7.1	.8	6.2
VALUE OF SHIPMENTS, INCLUDING REALES	640.3	367.7	272.6	304.5	68.1	236.4
VALUE OF REALES	30.8	22.3	8.6	7.8	1.2	6.6
VALUE ADDED BY MANUFACTURE	325.1	175.9	149.2	191.4	47.3	144.1
MANUFACTURERS' INVENTORIES:						
BEGINNING OF YEAR, TOTAL	48.6	29.9	18.7	35.2	12.2	23.0
FINISHED PRODUCTS	12.8	7.6	5.2	12.1	3.1	9.0
WORK IN PROCESS	4.2	2.6	1.5	9.9	4.0	5.9
MATERIALS, SUPPLIES, FUEL, ETC.	31.6	19.7	12.0	13.3	5.1	8.1
END OF YEAR, TOTAL	52.2	33.6	18.6	40.7	14.1	26.6
FINISHED PRODUCTS	14.9	9.7	5.2	15.1	3.4	11.6
WORK IN PROCESS	4.3	2.4	1.9	11.4	4.9	6.5
MATERIALS, SUPPLIES, FUEL, ETC.	33.0	21.5	11.5	14.2	5.8	8.4
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL	24.8	14.6	10.1	13.4	2.2	11.3
NEW PLANT AND EQUIPMENT, TOTAL	23.3	13.7	9.7	12.6	1.8	10.9
NEW STRUCTURES AND ADDITIONS TO PLANT	4.7	3.7	1.0	4.0	.5	3.4
NEW MACHINERY AND EQUIPMENT	18.7	10.0	8.6	8.7	1.3	7.4
USED PLANT AND EQUIPMENT	1.4	.9	.5	.8	.4	.4

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown.

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(1,000)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3271-- CONCRETE BLOCK AND BRICK											
ESTABLISHMENTS, TOTAL E1	1 388	22.8	196.0	15.2	31.5	115.0	438.5	421.8	855.7	46.2	88.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	340	.6	4.2	.5	.9	2.6	13.5	12.2	25.6	1.2	3.4
5 TO 9 EMPLOYEES E5	265	1.8	14.3	1.3	2.6	8.9	38.0	33.7	71.4	3.5	9.2
10 TO 19 EMPLOYEES E1	367	5.1	44.4	3.3	7.1	25.5	102.1	102.6	203.3	10.0	21.4
20 TO 49 EMPLOYEES	348	10.2	88.9	6.7	14.3	50.7	191.6	189.0	378.1	20.5	38.4
50 TO 99 EMPLOYEES	58	3.8	31.4	2.5	5.0	18.6	66.8	61.4	128.0	6.2	11.5
100 TO 249 EMPLOYEES	10	1.3	12.7	.9	1.7	8.6	26.6	23.0	49.2	4.8	4.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	460	1.7	11.3	1.2	2.3	7.1	32.3	29.3	61.7	2.8	8.1
3272-- CONCRETE PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL E1	3 595	67.6	570.2	53.5	109.9	401.0	1 190.1	786.4	1 961.4	96.2	260.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	1 479	2.6	19.2	2.6	4.5	14.0	51.6	34.6	86.8	4.5	11.6
5 TO 9 EMPLOYEES E6	658	4.4	34.2	3.5	7.4	24.2	76.1	48.0	123.8	14.7	14.9
10 TO 19 EMPLOYEES E2	535	7.4	57.9	5.7	11.3	38.8	122.8	71.0	191.6	9.6	21.9
20 TO 49 EMPLOYEES	570	17.7	146.8	13.5	28.0	99.0	302.4	198.7	495.1	26.7	65.0
50 TO 99 EMPLOYEES E1	235	16.3	140.5	12.9	26.8	99.4	296.6	197.3	488.6	13.5	66.4
100 TO 249 EMPLOYEES	105	14.6	130.4	11.5	24.5	92.7	257.0	177.2	432.2	19.4	59.5
250 TO 499 EMPLOYEES E2	11	4.6	41.1	3.8	7.5	32.8	83.7	59.6	143.0	7.6	21.1
500 TO 999 EMPLOYEES E3	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 586	4.6	33.5	4.2	7.9	24.3	80.9	53.9	134.8	7.0	18.8

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

(See Appendix, Explanation of Terms)											
Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3273-- READY-MIXED CONCRETE											
ESTABLISHMENTS, TOTAL, E1	4 915	85.7	809.3	56.9	114.4	497.4	1 756.7	2 291.8	4 050.9	247.6	116.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	1 397	2.9	24.3	2.4	4.1	16.1	91.8	126.0	217.7	8.1	5.8
5 TO 9 EMPLOYEES E4	1 027	6.9	58.5	4.7	9.2	37.2	149.0	209.1	358.1	17.2	9.2
10 TO 19 EMPLOYEES E1	1 163	16.0	146.3	10.8	21.4	90.5	335.5	433.3	768.9	47.2	18.1
20 TO 49 EMPLOYEES E1	1 030	30.7	298.1	19.6	39.7	174.8	620.3	823.0	1 442.6	90.3	36.7
50 TO 99 EMPLOYEES E1	213	14.3	137.2	9.6	19.8	87.3	286.1	363.4	649.5	37.3	19.0
100 TO 249 EMPLOYEES E1	73	10.3	97.7	6.8	13.8	61.1	183.4	231.9	416.6	29.6	20.5
250 TO 499 EMPLOYEES	10	4.7	47.3	3.0	6.3	30.4	90.6	105.1	197.5	18.2	6.9
500 TO 999 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 366	5.1	40.1	3.8	6.8	25.2	109.0	135.3	244.3	11.5	8.6
3273-02 WITHOUT A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL, E2	4 635	74.3	686.1	48.8	98.0	414.3	1 508.6	2 073.8	3 584.6	206.8	101.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	1 390	2.9	24.0	2.4	4.0	15.9	89.9	123.1	212.9	7.9	5.6
5 TO 9 EMPLOYEES E4	996	6.7	56.5	4.5	8.9	35.7	144.0	204.9	348.8	16.4	9.0
10 TO 19 EMPLOYEES E2	1 079	14.8	134.0	10.0	19.8	82.8	307.6	410.5	718.3	43.6	17.1
20 TO 49 EMPLOYEES E1	933	27.7	267.8	17.6	35.6	155.1	557.0	770.3	1 326.8	78.8	33.3
50 TO 99 EMPLOYEES E1	175	11.7	107.1	7.9	16.2	67.9	230.2	312.3	542.3	29.9	15.2
100 TO 249 EMPLOYEES E2	54	7.4	66.5	4.8	9.7	40.4	126.7	179.5	307.5	18.9	17.2
250 TO 499 EMPLOYEES E1	7	3.0	30.3	1.7	3.8	16.4	53.3	73.3	128.1	11.3	3.9
500 TO 999 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 366	5.1	40.1	3.8	6.8	25.2	109.0	135.3	244.3	11.5	8.6
3273-11 WITH A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL,	280	11.4	123.2	8.1	16.4	83.1	248.1	218.0	466.3	41.0	14.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	7	(Z)	.2	(Z)	(Z)	.2	1.9	2.9	4.9	.1	.2
5 TO 9 EMPLOYEES	31	.2	2.0	.2	.3	1.4	5.1	4.2	9.3	.8	.2
10 TO 19 EMPLOYEES	84	1.2	12.3	.8	1.6	7.7	27.9	22.8	50.7	3.6	1.0
20 TO 49 EMPLOYEES	97	2.9	30.2	2.0	4.1	19.8	63.3	52.7	115.8	11.5	3.4
50 TO 99 EMPLOYEES	34	2.5	30.1	1.8	3.5	19.4	55.9	51.2	107.2	7.4	3.8
100 TO 249 EMPLOYEES	19	2.9	31.2	2.0	4.2	20.7	56.7	52.3	109.1	10.7	3.3
250 TO 499 EMPLOYEES	3	1.6	17.0	1.2	2.6	14.1	37.4	31.8	69.4	6.9	3.0
500 TO 999 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3274-- LIME											
ESTABLISHMENTS, TOTAL,	103	5.7	50.0	4.8	10.4	38.9	129.7	109.0	238.1	39.4	18.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	19	(Z)	.3	(Z)	.1	.2	.7	.5	1.1	.1	.1
5 TO 9 EMPLOYEES E2	9	.1	.6	(Z)	.1	.4	1.1	1.8	2.9	.1	.1
10 TO 19 EMPLOYEES	6	.1	.8	.1	.1	.7	2.1	2.2	4.3	.2	.1
20 TO 49 EMPLOYEES	27	.9	7.7	.7	1.7	6.2	22.4	30.1	52.5	6.5	5.0
50 TO 99 EMPLOYEES	23	1.7	13.3	1.4	3.0	10.3	38.8	33.6	72.2	13.0	4.8
100 TO 249 EMPLOYEES	17	3.0	27.1	2.6	5.4	21.2	64.3	40.6	105.0	19.6	8.7
250 TO 499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	16	(Z)	.2	(Z)	.1	.2	.5	.4	1.0	.1	.1
3274-02 WITHOUT A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL,	63	2.0	17.1	1.6	3.6	13.4	50.5	58.5	108.5	28.4	8.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	19	.1	1.4	.1	.3	.7	3.8	5.5	8.2	.2	1.1
5 TO 9 EMPLOYEES	8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES	18	.6	5.1	.4	1.0	4.0	15.5	25.2	40.6	4.9	3.9
50 TO 99 EMPLOYEES	12	1.4	11.0	1.1	2.2	8.7	30.7	27.4	53.7	23.2	4.1
100 TO 249 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	16	(Z)	.2	(Z)	.1	.2	.5	.4	1.0	.1	.1
3274-11 WITH A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL,	40	3.7	32.9	3.2	6.8	25.5	79.0	50.5	129.6	11.0	10.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES	1	.1	.7	.1	.1	.6	1.6	1.9	3.4	1.7	.1
10 TO 19 EMPLOYEES	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES	9	.3	2.6	.3	.6	2.2	6.9	5.0	11.9	(0)	1.1
50 TO 99 EMPLOYEES	11	2.6	32.4	3.0	6.0	25.2	73.2	50.2	122.7	11.0	10.6
100 TO 249 EMPLOYEES	12	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3275-- GYPSUM PRODUCTS											
ESTABLISHMENTS, TOTAL.	114	11.2	115.5	9.0	21.1	88.7	325.1	317.5	640.3	23.3	52.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	18	(Z)	.3	(Z)	.1	.2	.8	.8	1.6	(Z)	.2
5 TO 9 EMPLOYEES E3	5	(Z)	.3	(Z)	(Z)	.2	.8	.6	1.4	(Z)	.2
10 TO 19 EMPLOYEES E1	7	.1	.8	.1	.2	.6	2.2	3.1	5.2	.2	.7
20 TO 49 EMPLOYEES	8	.3	2.4	.2	.5	1.7	7.9	13.3	20.8	4.5	1.5
50 TO 99 EMPLOYEES	16	1.2	12.3	.9	2.2	9.4	39.2	41.8	80.7	1.9	5.8
100 TO 249 EMPLOYEES	54	9.6	99.4	7.7	18.2	76.6	274.3	257.8	530.6	16.6	43.8
250 TO 499 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	17	(Z)	.3	(Z)	.1	.3	.8	.8	1.6	(Z)	.2
3275-02 WITHOUT A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	78	5.6	59.9	4.5	10.6	46.1	175.9	193.7	367.7	13.7	33.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	18	(Z)	.3	(Z)	.1	.2	.8	.8	1.6	(Z)	.2
5 TO 9 EMPLOYEES E3	5	(Z)	.3	(Z)	(Z)	.2	.8	.6	1.4	(Z)	.2
10 TO 19 EMPLOYEES E1	7	.1	.8	.1	.2	.6	2.2	3.1	5.2	.2	.7
20 TO 49 EMPLOYEES	8	.3	2.4	.2	.5	1.7	7.9	13.3	20.8	4.5	1.5
50 TO 99 EMPLOYEES	10	.7	8.2	.6	1.4	6.3	28.2	31.0	58.9	.9	4.2
100 TO 249 EMPLOYEES	29	4.4	47.8	3.5	8.6	37.1	136.1	145.0	279.8	8.0	26.8
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	17	(Z)	.3	(Z)	.1	.3	.8	.8	1.6	(Z)	.2
3275-11 WITH A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	36	5.6	55.6	4.5	10.4	42.6	149.2	123.7	272.6	9.7	18.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
50 TO 99 EMPLOYEES	6	.4	4.1	.4	.8	3.1	11.1	10.9	21.8	1.0	1.6
100 TO 249 EMPLOYEES	25	5.2	51.6	4.2	9.6	39.6	138.2	112.8	250.8	8.7	17.0
250 TO 499 EMPLOYEES	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3281-- CUT STONE AND STONE PRODUCTS											
ESTABLISHMENTS, TOTAL. E2	908	15.0	109.2	12.6	24.2	84.7	191.4	117.6	304.5	12.6	40.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	366	.7	4.7	.7	1.2	3.6	11.3	6.9	18.2	1.0	2.2
5 TO 9 EMPLOYEES E6	172	1.1	7.7	1.0	1.9	6.1	15.3	11.2	26.4	.9	3.0
10 TO 19 EMPLOYEES E2	178	2.4	17.5	1.9	3.7	12.8	29.9	18.9	48.7	1.6	5.2
20 TO 49 EMPLOYEES E1	131	3.8	27.8	3.2	5.8	21.1	50.6	31.5	81.5	3.5	7.3
50 TO 99 EMPLOYEES E1	37	2.5	17.3	2.1	4.1	13.9	27.8	16.3	43.5	2.7	5.0
100 TO 249 EMPLOYEES E1	19	2.7	18.7	2.2	4.4	14.6	30.4	18.7	48.4	2.3	8.3
250 TO 499 EMPLOYEES	5	1.8	15.5	1.5	3.1	12.5	26.1	14.2	37.8	.7	9.6
ESTABS. COVERED BY ADMIN. RECORD ¹ .	399	1.4	8.7	1.3	2.4	6.8	18.5	11.8	30.4	1.1	3.9
3281-11 WITH A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL.	64	4.1	30.1	3.6	7.2	24.1	47.3	22.0	68.1	1.8	14.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	2	(Z)	.2	(Z)	(Z)	.2	.6	.1	.7	(Z)	(Z)
5 TO 9 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	17	.2	2.0	.2	.4	1.3	3.5	1.7	5.1	.4	.6
20 TO 49 EMPLOYEES	15	.5	3.5	.4	.9	2.9	6.0	3.4	9.2	.1	.8
50 TO 99 EMPLOYEES	18	1.3	9.1	1.1	2.1	7.8	14.1	6.4	20.1	.5	2.4
100 TO 249 EMPLOYEES	5	2.1	15.1	1.8	3.9	11.9	23.2	10.4	32.0	.8	10.2
250 TO 499 EMPLOYEES	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3281-25 WITHOUT A MINE OR QUARRY											
ESTABLISHMENTS, TOTAL. E3	844	10.9	79.1	9.0	17.0	60.6	144.1	95.6	236.4	10.9	26.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	364	1.8	12.1	1.7	3.1	9.5	25.9	17.9	42.8	1.9	5.2
5 TO 9 EMPLOYEES E6	169	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES E3	161	2.2	15.5	1.7	3.3	11.4	26.4	17.3	43.7	1.2	4.5
20 TO 49 EMPLOYEES E1	116	3.3	24.3	2.7	5.0	18.2	44.6	28.1	72.3	3.4	6.6
50 TO 99 EMPLOYEES E2	19	1.2	8.2	1.0	1.9	6.2	13.8	9.9	23.4	2.2	2.6
100 TO 249 EMPLOYEES E1	14	2.3	19.1	1.9	3.6	15.2	33.2	22.5	52.2	6.2	7.7
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	399	1.4	8.7	1.3	2.4	6.8	18.5	11.8	30.4	1.1	3.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above.
 (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3271	CONCRETE BLOCK AND BRICK										
	ENTIRE INDUSTRY	1 388	22.8	196.0	15.2	31.5	115.0	438.5	421.8	855.7	46.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 301	19.6	166.4	13.0	26.9	96.1	379.7	364.7	739.7	40.1
3272	CONCRETE PRODUCTS, NEC										
	ENTIRE INDUSTRY	3 595	67.6	570.2	53.5	109.9	401.0	1 190.1	736.4	1 961.4	96.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	3 502	62.2	519.0	49.5	101.4	365.8	1 086.4	704.1	1 778.6	91.3
32721	CONCRETE PIPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	436	18.1	157.9	14.4	30.6	114.6	373.8	250.8	618.9	30.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	368	14.5	125.6	11.6	24.6	91.6	308.4	200.4	504.9	23.3
32722	PRECAST CONCRETE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	785	21.3	177.5	16.1	32.8	117.2	341.3	203.0	539.1	21.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	680	17.1	142.3	13.0	26.3	94.0	263.2	149.6	409.4	17.0
32723	PRESTRESSED CONCRETE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	187	15.2	139.9	12.0	24.8	101.6	264.7	196.2	457.0	24.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	148	10.4	94.6	8.4	17.3	70.1	184.2	129.6	310.2	15.3
3273	READY-MIXED CONCRETE										
	ENTIRE INDUSTRY	4 915	85.7	809.3	56.9	114.4	497.4	1 756.7	2 291.8	4 050.9	247.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	4 612	71.2	670.0	46.7	92.8	406.6	1 473.1	1 996.9	3 469.8	197.4
3274	LIME										
	ENTIRE INDUSTRY	103	5.7	50.0	4.8	10.4	38.9	129.3	109.0	238.1	39.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	93	5.0	44.0	4.1	9.2	34.4	114.3	98.4	212.4	36.7
3275	GYPSUM PRODUCTS										
	ENTIRE INDUSTRY	114	11.2	115.5	9.0	21.1	88.7	325.1	317.5	640.3	23.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	112	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32751	GYPSUM BUILDING MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	84	10.6	110.1	8.5	20.0	84.6	309.1	304.6	611.5	14.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	81	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32752	OTHER GYPSUM PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	.5	4.4	.4	.9	3.5	13.3	10.6	23.9	3.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3281	CUT STONE AND STONE PRODUCTS										
	ENTIRE INDUSTRY	908	15.0	109.2	12.6	24.2	84.7	191.4	117.6	304.5	12.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	887	14.1	102.1	11.8	22.5	78.8	178.2	109.5	283.2	11.7
32811	CUT GRANITE AND GRANITE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	147	5.5	43.7	4.5	8.8	33.6	78.2	51.5	125.9	4.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	137	5.1	40.4	4.1	8.0	31.3	71.9	47.5	115.4	4.1
32812	CUT LIMESTONE AND LIMESTONE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	51	1.4	11.8	1.2	2.2	9.5	18.1	10.9	28.9	1.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	44	1.3	10.2	1.1	2.0	8.3	14.6	8.1	22.7	.6
32813	CUT MARBLE AND OTHER CUT STONE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	78	3.4	22.0	2.9	6.0	17.3	35.9	19.1	55.0	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	63	2.5	16.2	2.1	4.4	12.6	25.2	12.7	38.1	.9

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio Col. B Col. B & C	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3271	Concrete block and brick.....1972..	855.7	676.9	51.1	127.7	93	795.7	676.9	118.8	85
	.....1967..	550.1	433.0	40.6	76.4	92	502.1	433.0	69.1	86
3272	Concrete products, n.e.c.....1972..	1,961.4	1,775.5	76.4	109.5	96	1,864.7	1,775.5	89.2	95
	.....1967..	1,201.1	1,076.6	44.6	79.9	96	1,147.5	1,076.6	70.9	94
3273	Ready-mixed concrete.....1972..	4,050.9	3,494.1	282.0	274.8	93	3,578.8	3,494.1	84.7	98
	.....1967..	2,684.2	2,283.8	182.2	218.2	93	2,330.5	2,283.8	46.7	98
3274	Lime.....1972..	238.1	212.3	23.4	2.3	90	231.4	212.3	19.1	92
	.....1967..	176.5	152.4	21.7	2.4	87	163.5	152.4	11.1	93
3275	Gypsum products.....1972..	640.3	579.6	27.9	32.8	95	583.1	579.6	3.5	99
	.....1967..	387.7	356.9	13.9	16.9	96	362.4	356.9	5.5	98
3281	Cut stone and stone products.....1972..	304.5	281.4	12.4	10.7	96	286.8	281.4	5.4	98
	.....1967..	236.4	210.1	12.0	14.2	95	211.4	210.1	1.3	99

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Concrete block and brick (SIC 3271)	Concrete products, n.e.c. (SIC 3272)	Ready-mixed concrete (SIC 3273)	Lime (SIC 3274)	Gypsum products (SIC 3275)	Cut stone and stone products (SIC 3281)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	855.7	1,961.4	4,050.9	247.5	640.3	304.5	(X)
3271-	Concrete block and brick.....	795.7	676.9	24.8	90.4	-	-	-	3.6
3272-	Concrete products, n.e.c.....	1,864.7	25.1	1,775.5	47.9	-	-	(under 2)	(10-20)
32721	Concrete pipe.....	565.3	7.8	541.2	9.9	-	-	-	6.4
32722	Precast concrete products.....	536.8	14.7	(200-500)	27.7	-	-	(under 2)	(5-10)
32723	Prestressed concrete products.....	414.1	2.6	399.3	10.3	-	-	-	1.9
32720	Concrete products, n.s.k.....	348.5	-	(200-500)	-	-	-	-	(under 2)
3273-	Ready-mixed concrete.....	3,578.8	15.2	23.9	3,494.1	(under 2)	-	-	(20-50)
3274-	Lime.....	231.5	-	(under 2)	-	212.3	-	-	(over 2)
3275-	Gypsum products.....	583.1	-	-	(under 2)	-	579.6	-	(2-5)
32751	Gypsum building materials.....	538.4	-	-	(under 2)	-	537.5	-	(under 2)
32752	Other gypsum products.....	40.4	-	-	(under 2)	-	38.1	-	(2-5)
32750	Gypsum products, n.s.k.....	4.3	-	-	-	-	4.0	-	.3
3281-	Cut stone and stone products....	286.8	-	(under 2)	(under 2)	-	-	281.4	4.5
32811	Cut granite and granite products.....	123.3	-	-	-	-	-	(100-200)	(under 2)
32812	Cut limestone and limestone products.....	27.9	-	-	(under 2)	-	-	(20-50)	(2-5)
32813	Cut marble and other cut stone products.....	44.2	-	(under 2)	-	-	-	43.1	(under 2)
32810	Cut stone and stone products, n.s.k.....	91.4	-	-	-	-	-	91.2	.2

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Concrete block and brick (SIC 3271)	Concrete products, n.e.c. (SIC 3272)	Ready-mixed concrete (SIC 3273)	Lime (SIC 3274)	Gypsum products (SIC 3275)	Cut stone and stone products (SIC 3281)	Other industries
	Other product shipments by 4-digit product group:								
1411-	Dimension stone.....	(X)	-	-	-	-	-	4.4	(X)
1422-	Crushed and broken limestone..	(X)	-	-	9.0	19.2	-	-	(X)
1423-	Crushed and broken granite....	(X)	-	-	(over 2)	-	-	-	(X)
1429-	Crushed and broken stone, n.e.c.....	(X)	-	-	15.6	-	-	1.8	(X)
1442-	Construction sand and gravel..	(X)	4.3	2.6	75.2	-	-	-	(X)
1492-	Gypsum.....	(X)	-	-	-	-	8.4	-	(X)
2851-	Paints and allied products....	(X)	-	-	-	-	(over 2)	-	(X)
2951-	Paving mixtures and blocks....	(X)	-	-	29.0	-	-	-	(X)
3241-	Cement, hydraulic.....	(X)	-	-	(over 2)	-	-	-	(X)
3295-	Minerals, ground or treated...	(X)	-	-	3.3	-	10.2	-	(X)
3296-	Mineral wool.....	(X)	-	(over 2)	-	-	-	-	(X)
3297-	Nonclay refractories.....	(X)	-	-	-	(over 2)	-	-	(X)
3442-	Metal doors, sash, and trim...	(X)	(2-5)	-	-	-	-	-	(X)
3449-	Miscellaneous metalwork.....	(X)	-	-	-	-	(over 2)	-	(X)
3494-	Valves and pipe fittings.....	(X)	-	(over 2)	-	-	-	-	(X)
3542-	Machine tools, metal-forming types.....	(X)	-	(over 2)	-	-	-	(under 2)	(X)
3648-	Lighting equipment, n.e.c.....	(X)	-	(over 2)	-	-	-	-	(X)
	Miscellaneous receipts.....	(X)	127.7	109.5	274.9	2.3	32.8	10.7	(X)
93000	Contract work.....	(X)	1.0	3.9	22.2	(under 2)	-	2.4	(X)
99989	Resales.....	(X)	124.4	70.5	206.0	1.8	(over 2)	7.8	(X)
99980	Other miscellaneous receipts..	(X)	2.3	35.1	46.7	(under 2)	(under 2)	.5	(X)
	Listing of the other industries with over \$2 million shipments of the primary products								
3273	2951 Paving mixtures and blocks	(X)	(X)	(X)	(X)	(X)	(X)	(X)	14.9
	3241 Cement, hydraulic.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)
3274	3297 Nonclay refractories.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3271- --	CONCRETE BLOCK AND BRICK, TOTAL.....	.....	(X)	795.7	(X)	502.1
32710 13	Structural block:					
	Lightweight aggregate (cinder, expanded slag, pumice, etc.)....	Million blocks	1,814.7	354.4	(S)	265.0
32710 16	Heavyweight aggregate.....	8"x8"x16" equip. ....do.....	833.1	220.4	567.0	114.6
32710 18	Decorative block (such as screen block, split block, slump block, shadowal block, etc.).....	....do.....	190.2	29.9	63.6	14.6
32710 51	Concrete brick.....	Million bricks	1420.7	22.3	479.7	15.4
32710 00	Concrete block and brick, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	107.0	(X)	57.1
32710 02	Concrete block and brick, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	61.7	(X)	35.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3272- --	CONCRETE PRODUCTS, N.E.C., TOTAL.....		(X)	1,864.7	(X)	1,147.5
32721 --	Concrete Pipe.....		(X)	565.3	(X)	400.5
	Culvert pipe:					
	Reinforced:					
32721 12	36 inches or more.....	1,000 s. tons.	1,689.2	59.5	6,942.5	215.6
32721 14	Less than 36 inches.....	..do.....	1,277.1	47.1		
32721 17	Nonreinforced.....	..do.....	251.7	8.2		
	Storm sewer pipe:					
	Reinforced:					
32721 21	36 inches or more.....	..do.....	1,626.7	62.0	6,942.5	215.6
32721 24	Less than 36 inches.....	..do.....	1,035.3	39.2		
32721 25	Nonreinforced.....	..do.....	165.3	6.0		
	Sanitary sewer pipe:					
	Reinforced:					
32721 26	24 inches or more.....	..do.....	1,430.9	58.2	6,942.5	215.6
32721 27	Less than 24 inches.....	..do.....	484.3	18.4		
	Nonreinforced:					
32721 28	15 inches or more.....	..do.....	71.0	3.4		
32721 29	Less than 15 inches.....	..do.....	237.0	9.5		
	Pressure pipe:					
32721 31	Reinforced concrete pressure pipe.....	Mil. lin. ft..	1.3	33.4	7.1	96.4
32721 32	Prestressed concrete cylinder pipe.....	..do.....	2.3	80.9		
32721 36	Pretensioned concrete cylinder pipe.....	..do.....	2.9	16.5		
32721 39	Other pressure pipe, including reinforced concrete cylinder pipe and prestressed concrete non-cylinder pipe.....	..do.....	(S)	.8		
32721 51	Irrigation pipe and drain tile.....	1,000 s. tons.	² 492.2	13.5	1,203.5	35.5
32721 98	Other concrete pipe (such as manholes and conduits).....	..do.....	¹² 058.3	70.4		
32721 00	Concrete pipe, n.s.k.....		(X)	38.3		
32722 --	Precast Concrete Products.....		(X)	536.8	(X)	341.5
	Roof and floor units:					
32722 13	Slabs and tile.....	Million sq.ft.	19.8	35.1	(NA)	47.0
32722 17	Joints and beams.....	Mil. lin. ft..	¹ .6	6.9	(NA)	6.9
32722 23	Architectural wall panels.....	Million sq.ft.	¹²³ .9	108.2	(NA)	71.4
32722 25	Piling, posts and poles.....	Mil. lin. ft..	² 2.8	7.1	(NA)	1.9
32722 27	Cast stone (products for architectural purposes, except archi- tectural wall panels, such as window sills, ashlar, coping, lintels and other trim).....		(X)	18.2	(X)	19.8
32722 28	Prefabricated building systems, primarily concrete, sold as complete units, and shipped in panel or modular form.....	Million sq. ft. floor area...	¹⁴ .4	15.7	(X)	29.2
32722 29	Other precast concrete construction or building products, including prefabricated housing components, reinforced columns, etc.....		(X)	68.6		
	Burial vaults and boxes:					
32722 33	Vaults.....	1,000 units...	637.3	64.8	534.0	44.1
32722 35	Boxes.....	..do.....	140.0	8.5	175.1	7.4
32722 41	Silo staves.....	..do.....	12,288.0	23.4	12,050.0	17.8
32722 61	Septic tanks.....	..do.....	289.5	34.1	204.9	17.1
32722 71	Dry-mixed concrete materials, including prepackaged sand, gravel and cement, mortar and cement premixes.....	1,000 s. tons.	²¹ 926.5	51.1	1,452.7	27.1
32722 98	Other precast concrete products, except construction or building products, including garden furniture, storage tanks, laundry trays, etc.....		(X)	38.9	(X)	21.2
32722 00	Precast concrete products, n.s.k.....		(X)	56.2	(X)	30.6
32723 --	Prestressed Concrete Products.....		(X)	414.1	(X)	217.7
32723 11	Single tees, double tees, and channels.....	Mil. lin. ft..	63.5	94.3	50.2	55.7
32723 23	Piling, bearing piles, and sheet piles.....	..do.....	8.1	31.7	5.2	20.1
32723 25	Bridge beams.....	..do.....	¹² .6	51.8	2.8	35.9
32723 27	Joists, girders, and beams (other than bridge beams).....	Million sq.ft.	¹⁶ .9	29.2	(NA)	8.4
32723 31	Solid and hollow cored slabs and panels.....	..do.....	¹⁷⁷ .1	118.1	(NA)	36.7
32723 98	Other prestressed concrete products (such as arches, columns, etc.).....	1,000 s. tons.	²⁸¹⁵ .4	45.5	598.5	28.6
32723 00	Prestressed concrete products, n.s.k.....		(X)	43.5	(X)	32.2
32720 00	Concrete products, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	210.9	(X)	117.1
32720 02	Concrete products, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	137.6	(X)	70.7
3273- --	READY-MIXED CONCRETE, TOTAL.....	Million cu.yd.	¹²⁰⁸ .5	3,578.8	¹¹⁶² .4	2,330.5
32730 11	Ready-mixed concrete.....	..do.....	¹²⁰⁸ .5	3,578.8	¹¹⁶² .4	2,330.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3274- --	LIME, TOTAL.....		(X)	(X)	231.5	(X)	(X)	163.5
32740 11	Quicklime.....	1,000 tons.	10,450	9,481	143.3	(S)	7,548	95.2
32740 51	Hydrated lime.....	..do.	2,596	2,546	54.7	2,207	2,123	36.9
32740 71	Dead-burned dolomite.....	..do.	1,299	1,255	24.2	1,289	1,307	23.4
32740 00	Lime, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	8.3	(X)	(X)	7.1
32740 02	Lime, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	1.0	(X)	(X)	.9
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers					
			1972		1967			
			Quantity	Value (million dollars)	Quantity	Value (million dollars)		
3275- --	GYPSUM PRODUCTS, TOTAL.....		(X)	583.1	(X)	362.4		
32751 11	Calcined gypsum building materials, building plasters, and prefabricated building materials.....	1,000 s. tons.	14,528	538.4	8,686	339.1		
32752 11	Other calcined gypsum products, industrial (manufacturing) plasters.....	..do.	1,332	40.4	785	19.4		
32750 00	Gypsum products, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	2.7	(X)	2.6		
32750 02	Gypsum products, n.s.k., for companies with less than 10 employees (See note.).....		(X)	1.6	(X)	1.3		
3281- --	CUT STONE AND STONE PRODUCTS, TOTAL.....		(X)	286.8	(X)	211.4		
32811 --	Dressed Dimension Granite (Including Gneiss, Syenite, Diorite, and Cut Granit).....		(X)	123.3	(X)	75.9		
32811 13	Building stone.....	1,000 cu. ft..	(S)	34.3	(S)	19.5		
32811 35	Monumental stone.....	..do.	(S)	74.5	(S)	45.0		
32811 98	Other granite products, such as paving blocks and curbing.....	..do.	(S)	10.8	(S)	8.6		
32811 00	Dressed dimension granite, n.s.k.....		(X)	3.7	(X)	2.9		
32812 --	Dressed Dimension Limestone (Including Dolomite, Travertine, Calcareous Tufa, and Cut Limestone).....		(X)	27.9	(X)	27.3		
32812 13	Building stone.....	1,000 cu. ft..	(S)	21.0	(S)	20.8		
32812 98	Other limestone products, such as flagging.....	..do.	(S)	4.1	(S)	4.5		
32812 00	Dressed dimension limestone, n.s.k.....		(X)	2.7	(X)	2.0		
32813 --	Dressed Dimension Marble and Other Stone.....		(X)	44.2	(X)	53.8		
32813 13	Building stone.....	1,000 cu. ft..	(S)	10.5	(S)	23.2		
32813 35	Other marble products, such as monumental stone.....	..do.	(S)	14.9	(S)	10.1		
32813 98	Other stone, such as slate (roofing, mill stock, and flagstone), sandstone, gabbro, basalt, and other dressed dimension stone products.....	..do.	(S)	12.3	(S)	16.2		
32813 00	Dressed dimension marble and other stone, n.s.k.....	..do.	(S)	6.4	(S)	4.3		
32810 00	Cut stone and stone products, n.s.k., for companies with 10 employees or more. (See note.).....	...	(X)	61.0	(X)	38.4		
32810 02	Cut stone and stone products, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	30.4	(X)	16.0		

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹From 10 to 30 percent of this figure was estimated.

²From 30 to 50 percent of this figure was estimated.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CONCRETE PIPE (32721)			PRECAST CONCRETE PRODUCTS (32722)--Continued		
United States.....	565.3	400.5	North Central Region.....	144.7	112.4
Northeast Region.....	73.1	46.2	East North Central Division.....	99.6	79.6
New England Division.....	21.4	12.2	Ohio.....	28.5	19.7
Maine.....	AA	(NA)	Indiana.....	14.8	12.8
New Hampshire.....	BB	(NA)	Illinois.....	19.8	18.6
Vermont.....	AA	(NA)	Michigan.....	21.1	14.7
Massachusetts.....	CC	3.6	Wisconsin.....	15.6	13.8
Connecticut.....	10.1	6.5	West North Central Division.....	45.1	32.9
Middle Atlantic Division.....	51.7	34.0	Minnesota.....	17.2	11.8
New York.....	18.9	11.1	Iowa.....	7.8	7.6
New Jersey.....	22.2	15.8	Missouri.....	7.6	3.9
Pennsylvania.....	10.6	7.1	South Dakota.....	2.0	AA
North Central Region.....	161.0	131.9	Nebraska.....	5.3	4.9
East North Central Division.....	115.3	93.9	Kansas.....	4.6	2.5
Ohio.....	30.8	22.8	South Region.....	164.9	99.4
Indiana.....	8.1	5.9	South Atlantic Division.....	96.0	60.2
Illinois.....	30.4	23.7	Maryland.....	8.9	8.7
Michigan.....	36.9	34.7	Virginia.....	14.2	10.7
Wisconsin.....	9.1	6.7	West Virginia.....	AA	(NA)
West North Central Division.....	45.8	37.9	North Carolina.....	14.4	9.7
Minnesota.....	18.3	16.9	South Carolina.....	4.5	2.1
Iowa.....	6.3	5.7	Georgia.....	20.8	13.3
Missouri.....	5.2	3.5	Florida.....	31.4	14.4
North Dakota.....	AA	AA	East South Central Division.....	22.3	14.8
South Dakota.....	AA	AA	Kentucky.....	4.7	2.9
Nebraska.....	5.9	BB	Tennessee.....	9.9	7.1
Kansas.....	6.2	5.1	Alabama.....	4.6	3.2
South Region.....	201.2	119.7	Mississippi.....	3.1	1.7
South Atlantic Division.....	91.0	56.8	West South Central Division.....	46.7	24.4
Maryland.....	20.7	17.8	Arkansas.....	2.1	(NA)
Virginia.....	13.9	8.4	Louisiana.....	6.2	7.4
West Virginia.....	BB	(NA)	Oklahoma.....	4.0	BB
North Carolina.....	9.0	6.5	Texas.....	34.3	13.8
South Carolina.....	11.4	7.0	West Region.....	90.3	42.4
Georgia.....	15.0	9.0	Mountain Division.....	17.9	8.3
Florida.....	17.8	6.8	Colorado.....	8.2	5.2
East South Central Division.....	33.9	21.1	Arizona.....	3.8	1.0
Kentucky.....	AA	BB	Utah.....	4.1	AA
Tennessee.....	12.5	6.3	Pacific Division.....	72.3	34.1
Alabama.....	CC	BB	Washington.....	11.9	7.4
Mississippi.....	12.0	7.1	Oregon.....	BB	1.8
West South Central Division.....	76.3	41.8	California.....	55.2	24.5
Arkansas.....	3.8	BB	Hawaii.....	AA	(NA)
Louisiana.....	7.6	9.0	PRESTRESSED CONCRETE PRODUCTS (32723)		
Oklahoma.....	4.2	AA	United States.....	414.1	217.7
Texas.....	60.8	29.4	Northeast Region.....	74.0	34.8
West Region.....	129.9	102.6	New England Division.....	26.3	7.2
Mountain Division.....	29.0	18.8	Massachusetts.....	13.9	4.0
Montana.....	AA	AA	Rhode Island.....	BB	(NA)
Idaho.....	2.3	1.9	Connecticut.....	AA	(NA)
Colorado.....	8.9	3.6	Middle Atlantic Division.....	47.7	27.6
New Mexico.....	BB	AA	New York.....	8.2	7.2
Arizona.....	5.5	BB	New Jersey.....	15.2	10.4
Utah.....	5.8	3.5	Pennsylvania.....	24.3	10.0
Nevada.....	AA	AA	North Central Region.....	88.5	43.4
Pacific Division.....	100.9	83.8	East North Central Division.....	60.6	30.3
Washington.....	12.8	11.4	Ohio.....	15.6	7.4
Oregon.....	CC	CC	Indiana.....	14.3	6.1
California.....	77.5	63.9	Illinois.....	15.7	5.9
Hawaii.....	BB	AA	Michigan.....	7.8	4.6
PRECAST CONCRETE PRODUCTS (32722)			Wisconsin.....	7.3	6.4
United States.....	535.8	341.5	West North Central Division.....	27.9	13.1
Northeast Region.....	135.9	87.2	Minnesota.....	12.6	5.1
New England Division.....	36.5	20.4	Iowa.....	BB	2.6
Maine.....	3.2	AA	South Dakota.....	1.5	(NA)
New Hampshire.....	2.4	(NA)	Nebraska.....	BB	2.1
Massachusetts.....	14.3	9.7	Kansas.....	4.0	(NA)
Rhode Island.....	AA	AA	South Region.....	169.3	91.9
Connecticut.....	14.2	7.1	South Atlantic Division.....	90.6	48.6
Middle Atlantic Division.....	99.5	66.8	Maryland.....	15.5	BB
New York.....	41.7	23.2	Virginia.....	13.0	5.1
New Jersey.....	27.7	26.7	West Virginia.....	AA	(NA)
Pennsylvania.....	30.1	16.9	North Carolina.....	6.6	10.2
See footnotes at end of table.			South Carolina.....	7.3	5.0
			Georgia.....	CC	BB
			Florida.....	41.8	21.6

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PRESTRESSED CONCRETE PRODUCTS (32723)--Continued			OTHER GYPSUM PRODUCTS (32752)--Continued		
South Region--Continued			North Central Region.....	11.6	(NA)*
East South Central Division.....	20.9	13.9	East North Central Division.....	CC	(NA)
Kentucky.....	AA	BB	Ohio.....	AA	(NA)
Tennessee.....	7.8	5.0	Illinois.....	BB	(NA)
Alabama.....	BB	2.4	West North Central Division.....	BB	(NA)
Mississippi.....	7.5	BB	Iowa.....	AA	(NA)
West South Central Division.....	57.8	29.4	Kansas.....	BB	(NA)
Louisiana.....	16.3	EE	South Region.....	EE	(NA)
Oklahoma.....	CC	BB	South Atlantic Division.....	CC	(NA)
Texas.....	34.8	13.1	Maryland.....	BB	(NA)
West Region.....	82.3	47.5	Georgia.....	AA	(NA)
Mountain Division.....	38.3	14.0	West South Central Division.....	CC	(NA)
Idaho.....	AA	AA	Louisiana.....	AA	(NA)
Colorado.....	23.1	CC	Oklahoma.....	BB	(NA)
Arizona.....	10.0	BB	West Region.....	EE	(NA)
Utah.....	BB	AA	Pacific Division.....	EE	(NA)
Pacific Division.....	44.0	33.6	California.....	EE	(NA)
Washington.....	7.4	5.9	CUT GRANITE AND GRANITE PRODUCTS (32811)		
Oregon.....	BB	AA	United States.....	123.3	75.9
California.....	27.4	23.1	Northeast Region.....	45.9	31.4
Hawaii.....	BB	BB	New England Division.....	40.0	27.2
GYPSUM BUILDING MATERIALS (32751)			New Hampshire.....	BB	BB
United States.....	538.4	(NA)	Vermont.....	27.2	18.5
Northeast Region.....	97.9	(NA)	Massachusetts.....	6.4	4.9
New England Division.....	EE	(NA)	Rhode Island.....	AA	(NA)
New Hampshire.....	CC	(NA)	Middle Atlantic Division.....	5.9	4.2
Massachusetts.....	CC	(NA)	New York.....	4.5	2.7
Connecticut.....	BB	(NA)	North Central Region.....	43.4	24.4
Middle Atlantic Division.....	GG	(NA)	East North Central Division.....	CC	2.1
New York.....	53.4	(NA)	Ohio.....	1.1	1.1
New Jersey.....	22.7	(NA)	Illinois.....	AA	(NA)
Pennsylvania.....	CC	(NA)	Wisconsin.....	BB	(NA)
North Central Region.....	135.2	(NA)	West North Central Division.....	FF	22.3
East North Central Division.....	87.5	(NA)	Minnesota.....	FF	18.1
Ohio.....	EE	(NA)	South Dakota.....	BB	BB
Indiana.....	FF	(NA)	Kansas.....	AA	AA
Illinois.....	CC	(NA)	South Region.....	30.9	18.6
Michigan.....	25.7	(NA)	South Atlantic Division.....	25.5	15.8
West North Central Division.....	47.7	(NA)	North Carolina.....	3.5	2.7
Iowa.....	FF	(NA)	Georgia.....	21.5	12.6
Kansas.....	CC	(NA)	East South Central Division.....	AA	(NA)
South Region.....	GG	(NA)	West South Central Division.....	BB	2.3
South Atlantic Division.....	101.9	(NA)	Texas.....	3.5	AA
Delaware.....	CC	(NA)	West Region.....	3.0	1.5
Maryland.....	EE	(NA)	Pacific Division.....	3.0	AA
Virginia.....	EE	(NA)	California.....	3.0	1.2
Georgia.....	FF	(NA)	CUT LIMESTONE AND LIMESTONE PRODUCTS (32812)		
Florida.....	27.6	(NA)	United States.....	27.9	27.3
West South Central Division.....	GG	(NA)	Northeast Region.....	CC	BB
Arkansas.....	EE	(NA)	New England Division.....	BB	AA
Louisiana.....	EE	(NA)	Massachusetts.....	BB	(NA)
Oklahoma.....	BB	(NA)	Middle Atlantic Division.....	CC	1.6
Texas.....	65.1	(NA)	New York.....	6.3	(NA)
West Region.....	GG	(NA)	North Central Region.....	15.7	20.4
Mountain Division.....	FF	(NA)	East North Central Division.....	EE	17.3
Montana.....	BB	(NA)	Indiana.....	11.2	14.1
Wyoming.....	CC	(NA)	Illinois.....	1.2	1.6
Colorado.....	BB	(NA)	West North Central Division.....	BB	3.1
New Mexico.....	CC	(NA)	Missouri.....	AA	2.5
Arizona.....	BB	(NA)	South Region.....	BB	BB
Utah.....	CC	(NA)	East South Central Division.....	1.3	AA
Nevada.....	EE	(NA)	Alabama.....	AA	(NA)
Pacific Division.....	GG	(NA)			
Washington.....	CC	(NA)			
California.....	GG	(NA)			
OTHER GYPSUM PRODUCTS (32752)					
United States.....	40.4	(NA)			
Northeast Region.....	3.5	(NA)			
Middle Atlantic Division.....	BB	(NA)			
New York.....	BB	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CUT MARBLE AND OTHER CUT STONE PRODUCTS (32813)			CUT MARBLE AND OTHER CUT STONE PRODUCTS (32813)-- Continued		
United States.....	44.2	53.8	South Region.....	EE	17.8
Northeast Region.....	12.2	17.7	South Atlantic Division.....	11.8	11.3
New England Division.....	5.3	10.2	Virginia.....	1.8	2.3
Vermont.....	5.1	8.5	North Carolina.....	2.1	BB
Middle Atlantic Division.....	6.9	7.4	Georgia.....	7.1	CC
New York.....	BB	3.2	East South Central Division.....	4.1	5.3
Pennsylvania.....	BB	4.1	Tennessee.....	2.9	BB
North Central Region.....	10.9	15.8	Mississippi.....	AA	(NA)
East North Central Division.....	7.1	9.6	West South Central Division.....	AA	1.2
Ohio.....	3.9	5.3	Texas.....	1.4	(NA)
Illinois.....	1.9	3.4	West Region.....	BB	2.6
West North Central Division.....	3.8	6.2	Mountain Division.....	AA	(NA)
Missouri.....	BB	CC	Pacific Division.....	2.0	BB
			California.....	AA	2.0

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
32710	Concrete block and brick, value.....mil. dol..	795.7	649.1	568.0	581.2	553.3	502.1	472.4	379.1
3272	Concrete products, n.e.c., value.....do....	1,864.7	1,639.1	1,457.4	1,355.6	1,253.1	1,117.5	861.9	662.1
3271	Concrete pipe.....do....	565.3	530.9	490.2	499.2	438.8	400.5	369.3	294.8
32722	Precast concrete products.....do....	536.8	622.7	557.5	445.2	428.8	341.5	297.3	287.1
32723	Prestressed concrete products.....do....	414.1	337.8	275.6	283.8	262.4	217.7	140.9	
32720	Concrete products, n.e.c., n.s.k.....do....	348.5	147.7	134.1	127.4	123.1	187.8	54.4	80.3
32730	Ready-mixed concrete:								
	Quantity.....mil. cu. yd..	^e 208.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	Value.....mil. dol..	3,578.8	2,826.8	2,617.3	2,470.7	2,338.6	2,330.5	1,970.7	1,468.6
32740	Lime, value.....do....	231.5	205.7	197.7	162.8	158.0	163.5	136.9	109.0
3275	Gypsum products, value.....do....	583.1	517.5	416.1	428.0	416.1	362.4	405.1	344.2
32751	Gypsum building materials.....do....	538.4	443.2	343.6	391.2	390.3	339.1	405.1	333.0
32752	Other gypsum products.....do....	40.4	(74.3)	(72.5)	(31.1)	(20.7)	19.4		
32750	Gypsum products, n.s.k.....do....	4.3	-	-	5.7	5.1	3.9		
3281	Cut stone and stone products, value.....do....	286.8	237.1	235.1	230.2	220.3	211.4	190.9	191.1
32811	Cut granite and granite products.....do....	123.3	120.1	110.5	93.4	88.8	75.9	87.8	87.9
32812	Cut limestone and limestone products.....do....	27.9	26.5	27.5	28.3	28.7	27.3	29.1	35.1
32813	Cut marble and other cut stone products.....do....	44.2	50.5	57.9	67.5	59.3	53.8	63.6	55.7
32810	Cut stone and stone products, n.s.k.....do....	91.4	(40.0)	(39.2)	41.0	43.5	54.4	10.4	12.3

- Represents zero. (NA) Not available. ^eFrom 10 to 30 percent of this figure was estimated.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 3271.--CONCRETE BLOCK AND BRICK						
	Materials, parts, containers, and supplies, total.....		(X)	301.9	(X)	199.5
324101	Portland cement.....	1,000 s. tons.	^e 3,536.3	90.0	¹ 15,071.3	60.0
144201	Sand and gravel.....	...do.....	^e 20,257.0	45.1	17,922.6	28.2
142011	Crushed or broken stone.....	...do.....	^e 10,743.9	32.8	6,436.4	15.7
Steel:						
331091	Wire strand and bars or rods, high strength, stress relieved...	...do.....	(S)	.6	2.8	.7
331092	Welded wire concrete reinforcing mesh.....	...do.....	^e 5.6	1.2	4.9	.8
331009	Concrete reinforcing bars.....	...do.....	8.4	1.3	8.0	1.5
970099	All other materials and components, parts, containers, and supplies.....		(X)	54.0	(X)	46.0
972000	Materials, components, parts, containers, and supplies, n.s.k. ² ..		(X)	76.8	(X)	46.3
INDUSTRY 3272.--CONCRETE PRODUCTS, N.E.C.						
	Materials, parts, containers, and supplies, total.....		(X)	675.9	(X)	417.9
324101	Portland cement.....	1,000 s. tons.	5,113.3	132.8	¹ 20.7	84.2
144201	Sand and gravel.....	...do.....	19,482.5	51.8	16,981.8	32.4
142011	Crushed or broken stone.....	...do.....	^e 6,417.3	20.6	5,652.0	14.1
Steel:						
331091	Wire strand and bars or rods, high strength, stress relieved...	...do.....	^e 240.8	59.6	204.5	39.9
331092	Welded wire concrete reinforcing mesh.....	...do.....	248.6	52.9	179.6	34.2
331009	Concrete reinforcing bars.....	...do.....	^e 171.5	30.2	111.5	16.9
970099	All other materials and components, parts, containers, and supplies.....		(X)	154.9	(X)	109.2
973000	Materials, components, parts, containers, and supplies, n.s.k. ² ..		(X)	172.9	(X)	87.1
INDUSTRY 3273.--READY-MIXED CONCRETE						
	Materials, parts, containers, and supplies, total.....		(X)	2,036.0	(X)	1,339.7
324101	Portland cement.....	1,000 s. tons.	37,456.9	866.3	¹ 159.2	609.8
144201	Sand and gravel.....	...do.....	177,505.3	400.6	153,601.6	272.7
142011	Crushed or broken stone.....	...do.....	58,564.0	162.2	43,566.1	90.9
970099	All other materials and components, parts, containers, and supplies.....		(X)	131.6	(X)	118.3
973000	Materials, components, parts, containers, and supplies, n.s.k. ² ..		(X)	475.3	(X)	247.5
INDUSTRY 3274.--LIME						
	Materials, containers, and supplies, total.....		(X)	53.3	(X)	44.1
264338	Paper shipping sacks and multiwall bags.....		(X)	4.2	(X)	4.6
320591	Refractories, clay or nonclay.....	1,000 s. tons.	(S)	.9	(NA)	(NA)
142011	Crushed and broken stone, including cement rock, limestone, etc..	...do.....	6,494	15.7	5,612	11.3
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	17.9	(X)	25.8
976000	Materials, containers, and supplies, n.s.k. ²		(X)	4.6	(X)	2.4
INDUSTRY 3275.--GYPSUM PRODUCTS						
	Materials, containers, and supplies, total.....		(X)	257.9	(X)	127.9
264338	Paper shipping sacks and multiwall bags	1,000 s. tons.	21	7.0	26	4.9
263112	Paperboard liners.....	...do.....	571	60.2	550	45.1
320591	Refractories, clay or nonclay.....	...do.....	30	1.6	(NA)	(NA)
142011	Crushed and broken stone, including cement rock, limestone, etc..	...do.....	10,970	54.5	10,234	28.9
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	131.1	(X)	48.4
976000	Materials, containers, and supplies, n.s.k. ²		(X)	3.5	(X)	.7

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	1972			1967		
		Quantity (1,000 short tons)	Delivered cost (million dollars)	Stone consumed from quarries operated at same location as the dressing plant (1,000 short tons)	Quantity (1,000 short tons)	Delivered cost (million dollars)	Stone consumed from quarries operated at same location as the dressing plant (1,000 short tons)
	INDUSTRY 3281.--CUT STONE AND STONE PRODUCTS						
	Materials, containers, and supplies, total.....	(X)	96.3	(S)	(X)	70.2	3,545.5
	Stone for preparation:						
141101	Rough blocks used to produce dressed stone.....	(S)	30.0	(S)	(S)	23.2	2,512.5
142101	Broken stone received for crushing, screening, or washing.....	(S)	.1	(S)	(S)	1.0	1,033.0
970099	All other materials and components, parts, containers, and supplies consumed.....	(X)	33.3	-	(X)	21.7	-
976000	Materials, containers, and supplies, n.s.k. ²	(X)	32.9	-	(X)	24.3	-

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the data did not meet publication standards.

^eFrom 10 to 30 percent of this figure was estimated.¹Unit of measure in 1967 was 1 million (376 lb. barrels).²This item represents the total cost of materials for establishments that did not report detailed materials data.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3271.--CONCRETE BLOCK AND BRICK					
	Purchased fuels and electric energy.....		(X)	13.9	(X)	13.3
	Purchased fuels, total.....		(X)	8.5	(X)	8.8
121005	Coal.....	1,000 s. tons.....	9.9	.1	20.4	.2
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	651.1	2.8	624.5	2.5
291141	Distillate.....	...do.....	567.7	2.4	339.6	1.7
291151	Residual.....	...do.....	83.4	.4	284.9	.8
131300	Natural gas.....	Billion ft ³	5.9	3.1	6.1	2.8
960011	Other fuels.....	.....	(X)	(S)	(X)	.9
975000	Fuels, n.s.k.....	.....	(X)	(S)	(X)	2.4
960012	Purchased electric energy.....	Million kWh.....	311.1	5.4	833.7	4.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.0	-	5.9	-
	INDUSTRY 3272.--CONCRETE PRODUCTS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	22.8	(X)	17.3
	Purchased fuels, total.....		(X)	14.7	(X)	11.1
121005	Coal.....	1,000 s. tons.....	6.4	.1	6.6	.1
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	746.6	3.4	631.5	3.1
291141	Distillate.....	...do.....	601.3	2.8	517.8	2.6
291151	Residual.....	...do.....	145.3	.6	113.7	.5
131300	Natural gas.....	Billion ft ³	6.9	3.5	8.2	3.1
960011	Other fuels.....	.....	(X)	(S)	(X)	1.5
975000	Fuels, n.s.k.....	.....	(X)	(S)	(X)	3.3
960012	Purchased electric energy.....	Million kWh.....	527.3	8.1	366.0	6.2
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	8.1	-	6.7	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3273.--READY-MIXED CONCRETE						
	Purchased fuels and electric energy.....		(X)	69.2	(X)	50.0
	Purchased fuels, total.....		(X)	53.8	(X)	39.2
121005	Coal.....	1,000 s. tons....	3.8	(Z)	13.0	.1
331212	Coke.....	..do.....	-	(NA)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	3,937.4	17.4	1,542.5	10.2
291141	Distillate.....	..do.....	3,400.0	15.8	1,390.6	9.1
291151	Residual.....	..do.....	537.4	1.6	151.9	1.1
131300	Natural gas.....	Billion ft ³	5.3	2.4	10.1	3.3
960011	Other fuels.....		(X)	(S)	(X)	8.9
975000	Fuels, n.s.k.....		(X)	(S)	(X)	16.7
960012	Purchased electric energy.....	Million kWh.....	985.5	15.4	553.9	10.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	.2	-
	Total energy used for heat and power.....	Bil. kWh equiv....	24.5	-	20.1	-
INDUSTRY 3274.--LIME						
	Purchased fuels and electric energy.....		(X)	45.5	(X)	31.4
	Purchased fuels, total.....		(X)	38.6	(X)	25.9
121005	Coal.....	1,000 s. tons....	1,818.0	20.1	1,625.6	13.8
331212	Coke.....	..do.....	(S)	(S)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	688.8	2.8	401.1	1.3
291141	Distillate.....	..do.....	483.3	2.0	72.4	.3
291151	Residual.....	..do.....	205.5	.9	328.7	1.0
131300	Natural gas.....	Billion ft ³	38.0	15.2	30.0	10.3
960011	Other fuels.....		(X)	(S)	(X)	.3
975000	Fuels, n.s.k.....		(X)	(S)	(X)	.2
960012	Purchased electric energy.....	Million kWh.....	619.7	6.9	511.5	5.5
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	4.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	27.0	-	23.1	-
INDUSTRY 3275.--GYPSUM PRODUCTS						
	Purchased fuels and electric energy.....		(X)	28.9	(X)	18.2
	Purchased fuels, total.....		(X)	18.5	(X)	11.0
121005	Coal.....	1,000 s. tons....	52.7	.7	82.3	.6
331212	Coke.....	..do.....	(S)	(S)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	873.4	4.1	828.3	2.5
291141	Distillate.....	..do.....	482.1	2.3	205.7	.9
291151	Residual.....	..do.....	391.3	1.8	622.6	1.6
131300	Natural gas.....	Billion ft ³	29.6	12.7	20.0	7.5
960011	Other fuels.....		(X)	(S)	(X)	.1
975000	Fuels, n.s.k.....		(X)	(S)	(X)	.3
960012	Purchased electric energy.....	Million kWh.....	799.0	10.4	657.8	7.2
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	12.1	-	9.1	-
INDUSTRY 3281.--CUT STONE AND STONE PRODUCTS						
	Purchased fuels and electric energy.....		(X)	5.6	(X)	5.0
	Purchased fuels, total.....		(X)	2.1	(X)	1.7
121005	Coal.....	1,000 s. tons....	11.4	.1	(NA)	(NA)
331212	Coke.....	..do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	88.9	.4	(NA)	(NA)
291141	Distillate.....	..do.....	84.9	.4	(NA)	(NA)
291151	Residual.....	..do.....	4.0	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft ³.....	.4	.2	(NA)	(NA)
960011	Other fuels.....		(X)	(S)	(X)	-
975000	Fuels, n.s.k.....		(X)	(S)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	384.5	3.5	220.5	3.3
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(D)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.5	-	1.5	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products

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EXPLANATORY TEXT

ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3291—Abrasive Products
- 3292—Asbestos Products
- 3293—Gaskets, Packing and Sealing Devices
- 3295—Minerals and Earths, Ground or Otherwise Treated*
- 3296—Mineral Wool
- 3297—Nonclay Refractories
- 3299—Nonmetallic Mineral Products, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3291.—ABRASIVE PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of abrasive grinding wheels of natural or synthetic materials, and other abrasive products. Establishments primarily engaged in the cutting of grindstones, pulpstones, and whetstones at the quarry are classified in mining industries. For a detailed list of products of industry 3291, refer to table 6A, product codes 32911 17 to 32914 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

*Note that the "short title" for this industry is used throughout the report.

Value of shipments and other receipts of the Abrasive Products Industry in 1972 totaled \$888 million. This included shipments of abrasive products (primary products) valued at \$782 million, shipments of other products (secondary products) valued at \$60 million, and miscellaneous receipts (mainly resales) of \$45 million.

Shipments of abrasive products (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent. Secondary products shipped by this industry in 1972 consisted mainly of paper coating and glazing (\$10 to \$20 million).

Shipments of abrasive products (primary products) from establishments classified in industry 3291 in 1972 represented 88 percent (coverage ratio) of these products valued at \$892 million shipped by all industries. In 1967, the coverage ratio was 85 percent. Other industries shipping abrasive products consisted mainly of industry 2641, Paper Coating and Glazing, (\$50 to \$100 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3291, these establishments accounted for 5 percent of value of shipments.

INDUSTRY 3292.—ASBESTOS PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of asbestos textiles, asbestos building materials, except asbestos paper (industry 2661), insulating materials for covering boilers and pipes, and other commodities composed wholly or chiefly of asbestos. Establishments primarily engaged in manufacturing gaskets and steam and other packing are classified in industry 3293. For a detailed list of products of industry 3292, refer to table 6A, product codes 32922 11 to 32927 98.

Although the SIC number and title of industry 3292 are unchanged, the 1972 definition of this industry has been revised from that used in the 1967 SIC manual. Insulation materials containing asbestos, which were previously classified in industry 3293, are now included in this industry. The effect of these revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC."

Value of shipments and other receipts of the Asbestos Products Industry in 1972 totaled \$763 million. This included shipments of asbestos products (primary products) valued at \$654 million, shipments of other products (secondary products) valued at \$62 million, and miscellaneous receipts (mainly resales) of \$48 million.

Shipments of asbestos products (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of gaskets, packing and sealing devices, (\$25 million) and miscellaneous plastics products (\$10 to \$20 million).

Shipments of asbestos products (primary products) from establishments classified in industry 3292 in 1972 represented 88 percent (coverage ratio) of these products valued at \$743 million shipped by all industries. In 1967, the coverage ratio was 90 percent. Other industries shipping asbestos products consisted mainly of industry 2952, Asphalt Felts and Coatings, and industry 3996, Hard Surface Floor Coverings, (each \$20 to \$50 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3292, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3293.—GASKETS, PACKING AND SEALING DEVICES

This industry comprises establishments primarily engaged in the manufacture of gaskets, gasketing materials, compression packing, molded packings, oil seals, and mechanical seals. Included are gaskets, packing and sealing devices, made of leather, rubber, metal, asbestos, and plastics.

Establishments primarily engaged in manufacturing insulation materials containing asbestos are classified in industry 3292. For a detailed list of products of industry 3293, refer to table 6A, product codes 32932 13 to 32933 71.

Although the SIC number and title of industry 3293 are unchanged, the 1972 definition of this industry has been revised from that used in the 1967 SIC manual.

Molded packings and seals, except plastics (formerly classified in industry 3069), axial mechanical face seals (formerly in industry 3599), plastics packing and seals (formerly in industry 3079), and leather packings, oil and grease retainers, including seals (formerly in industry 3121), are now included in

this industry. Also, insulation materials containing asbestos, which were previously classified in industry 3293, are included in industry 3292 for 1972. The effect of these revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC."

Value of shipments and other receipts of the Gaskets, Packing and Sealing Devices, Industry in 1972 totaled \$665 million. This included shipments of gaskets, packing and sealing devices, (primary products) valued at \$576 million, shipments of other products (secondary products) valued at \$68 million, and miscellaneous receipts (mainly resales) of \$21 million.

Shipments of gaskets, packing and sealing devices, (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of fabricated rubber products, n.e.c., (\$16 million) and asbestos products (\$10 to \$20 million).

Shipments of gaskets, packing and sealing devices, (primary products) from establishments classified in industry 3293 in 1972 represented 81 percent (coverage ratio) of these products valued at \$715 million shipped by all industries. Other industries shipping gaskets, packing and sealing devices, consisted mainly of industry 3069, Fabricated Rubber Products, N.E.C., (\$59 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3293, these establishments accounted for 5 percent of value of shipments.

INDUSTRY 3295.—MINERALS, GROUND OR TREATED (Short Title)

This industry comprises establishments primarily engaged in the crushing, grinding, pulverizing, and otherwise preparing certain earths, rocks, minerals, or slag for sale for industrial uses or for further manufacture.

Establishments primarily engaged in the beneficiation of ores and the cleaning and grading of coal performed at the mine or by primary preparation plants are classified in the mining industries. For a detailed list of products of industry 3295, refer to table 6A, product codes 32950 11 to 32950 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Minerals, Ground or Treated, Industry in 1972 totaled \$414 million. This included shipments of minerals, ground or treated, (primary products) valued at \$350 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly resales) of \$46 million.

Shipments of minerals, ground or treated, (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 96 percent.

Shipments of minerals, ground or treated, (primary products) from establishments classified in industry 3295 in 1972 represented 89 percent (coverage ratio) of these products valued at \$392 million shipped by all industries. In 1967, the coverage ratio was also 89 percent. Other industries shipping minerals, ground or treated, consisted mainly of industry 3275, Gypsum Products, (\$10 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3295, these establishments accounted for 12 percent of value of shipments.

INDUSTRY 3296.—MINERAL WOOL

This industry comprises establishments primarily engaged in the manufacture of mineral wool and mineral wool insulation products made of such siliceous materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products and textile glass fibers are classified in industries 3292 and 3229, respectively. For a detailed list of products of industry 3296, refer to table 6A, product codes 32961 11 to 32962 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Mineral Wool Industry in 1972 totaled \$755 million. This included shipments of mineral wool (primary products) valued at \$687 million, shipments of other products (secondary products) valued at \$49 million, and miscellaneous receipts (mainly resales) of \$20 million.

Shipments of mineral wool (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent. Secondary products shipped by this industry in 1972 consisted mainly of

pressed and blown glass and glassware, n.e.c.; blowers and exhaust and ventilation fans; and paddings and upholstery filling (\$10 to \$20 million each).

Shipments of mineral wool (primary products) from establishments classified in industry 3296 in 1972 represented 93 percent (coverage ratio) of these products valued at \$739 million shipped by all industries. In 1967, the coverage ratio was 95 percent. Other industries shipping mineral wool consisted mainly of industry 2661, Building Paper and Board Mills, (\$34 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3296, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3297.—NONCLAY REFRACTORIES

This industry comprises establishments primarily engaged in the manufacture of refractories and crucibles made of materials other than clay. Establishments primarily engaged in manufacturing clay refractories are classified in industry 3255. For a detailed list of products of industry 3297, refer to table 6A, product codes 32970 12 to 32970 94.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Nonclay Refractories Industry in 1972 totaled \$342 million. This included shipments of nonclay refractories (primary products) valued at \$313 million, shipments of other products (secondary products) valued at \$22 million, and miscellaneous receipts (mainly resales) of \$8 million.

Shipments of nonclay refractories (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of clay refractories (\$10 million) and lime (\$5 to \$10 million).

Shipments of nonclay refractories (primary products) from establishments classified in industry 3297 in 1972 represented 84 percent (coverage ratio) of these products valued at \$372 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping nonclay refractories consisted mainly of industry 3255, Clay Refractories, (\$33 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3297, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3299.—NONMETALLIC MINERAL PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in the factory production of statuary and art goods made of plaster of paris and papier mache, and in manufacturing sand lime products and other nonmetallic mineral products, not elsewhere classified. For a detailed list of products of industry 3299, refer to table 6A, product codes 32990 53 to 32990 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Nonmetallic Mineral Products, N.E.C., Industry in 1972 totaled \$166

million. This included shipments of nonmetallic mineral products, n.e.c., (primary products) valued at \$152 million, shipments of other products (secondary products) valued at \$9 million, and miscellaneous receipts (mainly resales) of \$5 million.

Shipments of nonmetallic mineral products, n.e.c., (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 82 percent.

Shipments of nonmetallic mineral products, n.e.c., (primary products) from establishments classified in industry 3299 in 1972 represented 90 percent (coverage ratio) of these products valued at \$170 million shipped by all industries. In 1967, the coverage ratio was 89 percent. Other industries shipping nonmetallic mineral products, n.e.c., consisted mainly of industry 3291, Abrasive Products, and industry 2851, Paints and Allied Products, (each \$5 to \$10 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3299, these establishments accounted for 18 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3291.--ABRASIVE PRODUCTS															
1972 Census.....	392	167	24.5	229.4	17.2	33.1	138.1	529.6	361.6	888.1	17.2	(NA)	147.9	93	88
1971 ASM.....	(NA)	(NA)	23.8	205.1	16.1	30.8	117.4	469.4	321.5	790.2	18.3	401.9	147.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	26.0	206.8	17.6	33.2	121.4	457.4	321.2	775.8	30.2	377.9	149.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	28.7	230.0	20.1	39.3	138.9	498.4	377.3	867.3	25.2	426.1	143.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	31.3	233.7	22.0	42.2	144.7	567.0	419.7	990.7	24.4	400.8	160.4	(NA)	(NA)
1967 Census.....	361	165	27.2	197.5	18.9	36.3	119.2	420.7	306.5	725.3	30.4	388.7	128.2	91	85
1966 ASM.....	(NA)	(NA)	34.9	246.4	23.3	47.7	152.5	619.9	413.0	1,015.6	39.3	(NA)	161.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	31.7	218.4	20.9	43.3	134.2	535.3	372.3	899.6	21.9	(NA)	138.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	29.3	201.1	19.2	38.8	113.6	473.5	309.6	775.1	16.3	309.4	123.4	(NA)	(NA)
1963 Census.....	378	149	28.2	187.0	18.6	36.7	107.6	416.4	287.5	704.2	15.5	298.8	115.0	70	95
1962 ASM.....	(NA)	(NA)	28.5	187.9	18.1	35.2	100.9	398.3	266.6	659.5	12.1	291.4	117.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	27.1	169.2	16.9	33.2	89.0	357.4	238.2	594.9	14.1	(NA)	109.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	28.0	172.7	18.3	34.7	91.7	354.4	253.4	605.9	16.4	(NA)	108.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	27.4	165.6	18.4	35.9	94.1	351.6	253.9	599.5	20.2	(NA)	107.6	(NA)	(NA)
1958 Census.....	354	130	24.0	127.9	16.0	30.9	75.5	277.7	211.2	490.8	21.1	(NA)	95.0	83	96
INDUSTRY 3292.--ASBESTOS PRODUCTS															
1972 Census, new SIC ² .	142	97	21.0	191.1	16.6	34.4	142.8	426.1	343.5	763.4	20.4	(NA)	136.2	91	88
1972 Census, old SIC ² .	137	95	20.8	186.5	16.6	34.4	140.9	418.2	334.4	745.9	19.9	(NA)	136.2	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	18.9	159.6	14.7	30.7	119.9	350.5	290.8	632.6	16.2	380.0	122.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	18.9	150.4	14.7	30.8	112.6	315.7	268.5	585.3	16.1	368.5	112.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	22.2	168.9	17.7	37.7	128.9	363.8	297.7	658.8	20.1	370.3	117.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	21.5	152.8	17.0	35.7	114.9	336.9	279.8	613.5	15.8	341.6	121.4	(NA)	(NA)
1967 Census.....	138	99	21.3	144.0	16.8	35.0	107.5	308.1	263.9	575.0	18.9	333.0	111.0	93	90
1966 ASM.....	(NA)	(NA)	22.7	149.6	17.8	37.6	114.0	324.2	281.9	591.1	23.4	(NA)	113.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	21.0	132.1	16.8	34.7	100.3	300.6	268.3	567.7	27.9	(NA)	95.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	20.4	128.1	16.4	34.9	98.4	300.1	251.7	545.8	20.9	275.0	89.8	(NA)	(NA)
1963 Census.....	124	84	19.5	118.0	15.7	32.9	89.8	269.1	240.7	509.2	12.4	257.2	82.8	95	91
1962 ASM.....	(NA)	(NA)	21.8	125.9	17.7	36.6	96.1	268.2	251.4	512.9	13.9	246.2	86.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	21.7	118.6	17.5	35.9	90.1	269.3	238.8	502.9	9.1	(NA)	82.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	22.4	119.2	18.3	37.4	92.1	279.1	243.7	515.0	18.5	(NA)	85.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	22.8	119.4	18.6	39.1	92.8	179.6	250.5	522.5	11.1	(NA)	79.0	(NA)	(NA)
1958 Census.....	109	80	21.3	106.4	17.0	35.0	80.4	235.5	216.6	453.5	12.8	183.3	70.9	83	96
INDUSTRY 3293.--GASKETS, PACKING AND SEALING DEVICES															
1972 Census ³	374	184	27.7	220.4	21.1	42.7	146.9	428.5	252.6	665.4	24.9	(NA)	101.9	89	81
INDUSTRY 3295.--MINERALS, GROUND OR TREATED															
1972 Census.....	492	154	9.6	88.5	7.7	16.3	65.1	239.0	178.0	414.4	30.4	(NA)	40.4	95	89
1971 ASM.....	(NA)	(NA)	11.3	92.7	9.1	19.8	70.2	237.9	173.9	415.1	35.2	379.0	44.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	11.7	93.5	9.7	20.9	72.0	251.9	170.0	417.1	34.9	381.3	44.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	10.9	79.1	8.6	18.1	57.9	222.5	153.9	372.2	20.1	338.4	34.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	9.6	68.8	7.6	16.0	50.4	182.7	154.0	334.9	32.2	280.0	32.5	(NA)	(NA)
1967 Census.....	504	130	8.9	59.3	7.0	14.4	41.7	149.4	132.4	280.9	23.5	267.6	27.3	95	89
1966 ASM.....	(NA)	(NA)	8.9	58.3	6.8	14.5	40.7	164.7	127.9	292.1	*21.6	(NA)	26.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	8.6	52.6	6.6	13.9	37.1	142.4	120.1	263.2	19.4	(NA)	24.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	7.3	43.9	5.5	11.3	30.5	107.0	104.9	210.8	*10.2	152.6	24.4	(NA)	(NA)
1963 Census.....	415	97	7.3	41.6	5.7	11.7	29.6	102.1	101.9	204.4	11.9	148.3	23.5	94	86
1962 ASM.....	(NA)	(NA)	*8.6	*49.0	*6.5	*14.0	*35.2	*128.3	*102.6	*226.3	*21.1	141.6	*28.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*8.7	*47.7	*6.6	*14.2	*34.3	*126.7	*104.8	*232.7	*35.5	(NA)	*25.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*9.3	*50.3	*7.2	*15.2	*36.4	*137.3	*102.0	*236.5	*14.6	(NA)	*27.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*8.9	*47.8	*7.0	*14.5	*34.7	*136.7	*107.6	*244.6	*26.6	(NA)	*24.6	(NA)	(NA)
1958 Census.....	424	111	8.3	42.3	6.5	13.5	30.5	115.5	101.5	219.1	9.5	(NA)	23.1	96	85

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3296.--MINERAL WOOL															
1972 Census.....	108	75	18.0	172.3	14.7	30.8	135.7	441.5	315.6	755.4	50.1	(NA)	54.9	93	93
1971 ASM.....	(NA)	(NA)	16.2	146.7	13.1	28.4	115.3	367.5	269.7	640.3	45.0	420.4	48.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	15.8	134.2	12.8	26.7	104.7	320.8	244.2	559.5	32.4	383.7	48.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	15.3	123.8	12.4	26.0	97.5	315.4	227.1	539.7	25.0	331.7	42.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	14.5	111.6	11.7	24.6	87.7	279.5	211.2	486.4	28.0	304.4	38.3	(NA)	(NA)
1967 Census.....	116	74	15.1	106.9	12.2	25.5	83.9	247.3	204.4	454.4	27.2	294.5	35.3	92	96
1966 ASM.....	(NA)	(NA)	16.1	108.9	12.9	27.3	84.3	252.2	214.5	461.0	24.1	(NA)	40.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	15.4	99.3	12.2	26.1	77.8	227.6	202.1	430.2	16.3	(NA)	32.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	14.9	91.6	11.9	24.7	70.7	216.7	180.1	395.6	18.5	258.1	31.5	(NA)	(NA)
1963 Census.....	123	67	14.7	92.3	11.6	24.8	69.1	206.8	186.8	391.9	38.0	246.0	32.4	90	96
1962 ASM.....	(NA)	(NA)	14.8	93.3	11.9	24.8	66.7	212.9	188.4	398.5	15.1	221.7	29.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	13.5	78.2	10.8	23.0	57.8	186.2	163.6	347.4	13.6	(NA)	25.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	12.8	70.5	10.3	20.6	51.6	165.2	144.2	307.1	15.3	(NA)	25.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	13.4	71.6	10.4	22.5	52.6	166.6	144.9	309.0	13.8	(NA)	26.1	(NA)	(NA)
1958 Census.....	102	62	11.9	59.1	9.0	18.7	42.7	133.5	107.5	240.9	10.4	(NA)	21.3	95	95
INDUSTRY 3297.--NONCLAY REFRACTORIES															
1972 Census.....	89	59	8.1	78.0	6.0	12.7	54.3	190.5	150.2	342.1	9.3	(NA)	80.9	94	84
1971 ASM.....	(NA)	(NA)	8.9	78.7	6.3	12.6	51.0	184.4	147.4	331.4	21.0	271.7	92.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.9	84.2	7.4	15.1	58.0	197.8	162.6	353.8	20.1	275.7	90.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	9.4	77.4	7.2	14.8	53.5	185.8	160.0	347.5	21.1	267.0	73.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	9.5	72.8	7.1	14.4	49.4	164.7	150.1	315.8	16.4	252.4	79.1	(NA)	(NA)
1967 Census.....	92	64	9.9	72.1	7.4	14.8	49.5	158.7	149.7	307.1	17.3	251.7	87.0	90	88
1966 ASM.....	(NA)	(NA)	10.3	71.6	8.0	16.3	51.2	172.3	164.4	333.1	15.9	(NA)	88.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	9.5	64.7	7.5	15.4	47.2	155.0	146.4	293.6	17.0	(NA)	76.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.1	59.7	7.3	15.0	43.6	143.7	140.4	283.5	10.2	203.1	65.9	(NA)	(NA)
1963 Census.....	93	68	8.6	53.4	6.8	13.5	38.7	129.1	123.1	250.2	9.3	193.2	71.3	94	88
1962 ASM.....	(NA)	(NA)	*7.6	*44.9	*6.0	*11.5	*32.0	*102.9	*94.8	*197.7	*6.3	187.3	*62.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*8.1	*46.2	*6.3	*11.9	*33.1	*106.3	*92.3	*199.8	*9.3	(NA)	*62.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*9.4	*51.1	*7.6	*14.1	*37.7	*118.6	*97.6	*213.4	*7.1	(NA)	*66.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*9.4	*51.6	*7.6	*14.5	*39.0	*121.4	*95.0	*209.6	*10.0	(NA)	*60.9	(NA)	(NA)
1958 Census.....	84	66	8.0	41.2	6.3	11.7	30.4	102.4	73.8	177.6	14.9	(NA)	46.1	95	89
INDUSTRY 3299.--NONMETALLIC MINERAL PRODUCTS, N.E.C.															
1972 Census.....	491	81	6.3	46.0	5.2	9.9	31.9	104.7	58.7	166.5	5.0	(NA)	16.1	94	90
1971 ASM.....	(NA)	(NA)	4.8	36.4	3.8	7.6	25.3	72.8	50.8	123.1	5.3	75.5	27.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	4.2	29.9	3.3	6.6	19.8	60.5	38.4	98.7	*2.5	55.5	24.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	4.7	29.2	3.7	6.7	19.7	57.7	46.6	104.5	3.3	*45.7	11.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	4.9	29.6	4.0	7.4	20.8	56.6	43.6	100.0	2.9	*48.3	11.0	(NA)	(NA)
1967 Census.....	330	53	5.3	30.6	4.3	8.3	21.1	56.8	43.5	99.9	2.2	*49.8	11.6	83	89
1966 ASM.....	(NA)	(NA)	6.4	35.9	5.2	10.7	24.7	68.7	49.1	115.9	*3.4	(NA)	14.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	6.2	32.3	5.1	10.9	23.1	66.1	48.9	114.3	*4.4	(NA)	12.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	5.3	25.9	4.2	8.2	17.9	53.1	46.1	98.5	1.5	42.7	10.7	(NA)	(NA)
1963 Census.....	320	56	5.5	27.1	4.4	8.3	18.2	53.3	43.4	96.2	2.2	41.0	11.3	86	96
1962 ASM.....	(NA)	(NA)	*2.0	*5.6	*1.8	*2.4	*3.7	*18.7	*23.8	*43.1	*1.3	37.3	*7.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*1.9	*5.8	*1.6	*3.0	*4.3	*19.8	*26.9	*48.3	*1.5	(NA)	*7.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*2.2	*11.5	*1.7	*5.7	*5.6	*23.4	*29.1	*52.6	*1.4	(NA)	*7.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*7.2	*25.1	*6.1	*13.8	*19.0	*42.3	*37.0	*79.9	*1.1	(NA)	*8.1	(NA)	(NA)
1958 Census.....	254	51	4.3	17.0	3.4	6.5	11.6	32.0	26.9	58.9	1.2	(NA)	8.3	85	85

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3291	Industry 3292	Industry 3293	Industry 3295	Industry 3296	Industry 3297	Industry 3299
1972.....	130	87	346	349	66	60	480
1967.....	320	81	(NA)	382	77	59	325
1963.....	340	73	(NA)	313	89	51	313

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²The 1972 data on the new SIC basis are not strictly comparable to 1972 and previous-year data on the old SIC basis because as a result of the 1972 Standard Industrial Classification revisions, several establishments previously classified in industry 3293 are now included in industry 3292. (See table 1C.) Also, as a result of the SIC revisions, the product mix of several establishments has changed such that these establishments have moved into or out of industry 3292 on the new SIC basis.

³Comparable data for previous years are not available because a large number of establishments previously classified in industries 3069, 3079, 3121, and 3599 are now included in industry 3293, and several establishments previously classified in industry 3293 are now included in industry 3292. (See table 1C.)

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3291.--ABRASIVE PRODUCTS											
1972 Census.....	9,363	(NA)	70	1,924	4.17	.41	.67	(NA)	21,616	45	16.00
1971 ASM.....	8,618	16,890	68	1,913	3.81	.41	.67	.51	19,723	44	15.24
1970 ASM.....	7,954	14,530	68	1,886	3.66	.41	.68	.49	17,592	45	13.78
1969 ASM.....	8,014	14,850	70	1,955	3.53	.44	.70	.49	17,366	46	12.68
1968 ASM.....	7,466	12,810	70	1,918	3.43	.42	.66	.40	18,115	41	13.44
1967 Census.....	7,257	14,290	69	1,923	3.28	.42	.69	.54	15,461	47	11.59
1966 ASM.....	7,065	(NA)	67	2,051	3.20	.41	.65	(NA)	17,775	40	13.00
1965 ASM.....	6,885	(NA)	66	2,075	3.10	.41	.66	(NA)	16,878	41	12.36
1964 ASM.....	6,855	10,560	66	2,015	2.93	.40	.66	.40	16,142	42	12.22
1963 Census.....	6,637	10,600	66	1,975	2.93	.41	.67	.42	14,782	45	11.35
1962 ASM.....	6,954	10,220	63	1,945	2.87	.40	.69	.44	13,977	47	11.33
1961 ASM.....	6,237	(NA)	62	1,963	2.68	.40	.68	(NA)	13,170	47	10.76
1960 ASM.....	6,179	(NA)	65	1,901	2.64	.42	.70	(NA)	12,679	49	10.21
1959 ASM.....	6,053	(NA)	67	1,951	2.62	.42	.70	(NA)	12,855	47	9.79
1958 Census.....	5,340	(NA)	67	1,934	2.44	.43	.69	(NA)	11,593	46	8.99
INDUSTRY 3292.--ASBESTOS PRODUCTS											
1972 Census, new SIC ¹ ..	9,100	(NA)	79	2,072	4.15	.45	.70	(NA)	20,290	45	12.39
1972 Census, old SIC...	8,966	(NA)	80	2,072	4.10	.45	.70	(NA)	20,106	45	12.15
1971 ASM.....	8,444	20,106	78	2,088	3.91	.46	.71	.60	18,545	46	11.41
1970 ASM.....	7,958	19,497	78	2,095	3.66	.46	.72	.63	16,704	48	10.25
1969 ASM.....	7,608	16,680	80	2,129	3.42	.45	.71	.56	16,387	46	9.64
1968 ASM.....	7,107	15,888	79	2,100	3.22	.46	.71	.56	15,670	45	9.43
1967 Census.....	6,763	15,634	79	2,084	3.07	.46	.71	.58	14,470	47	8.80
1966 ASM.....	6,606	(NA)	78	2,115	3.03	.48	.73	(NA)	14,310	46	8.62
1965 ASM.....	6,286	(NA)	80	2,067	2.89	.47	.71	(NA)	14,305	44	8.66
1964 ASM.....	6,263	13,480	80	2,129	2.82	.46	.70	.50	14,676	43	8.59
1963 Census.....	6,048	13,189	81	2,089	2.73	.47	.70	.51	13,787	44	8.18
1962 ASM.....	5,765	11,294	81	2,068	2.62	.49	.74	.48	12,276	47	7.32
1961 ASM.....	5,459	(NA)	81	2,044	2.51	.47	.71	(NA)	12,399	44	7.51
1960 SSM.....	5,317	(NA)	81	2,048	2.46	.47	.70	(NA)	12,456	43	7.47
1959 ASM.....	5,243	(NA)	82	2,106	2.37	.48	.71	(NA)	12,279	43	7.14
1958 Census.....	4,998	8,606	80	2,059	2.30	.48	.71	.40	11,060	45	6.72
INDUSTRY 3293.--GASKETS, PACKING AND SEALING DEVICES											
1972 Census ²	7,956	(NA)	76	2,023	3.44	.38	.71	(NA)	15,469	51	10.04
INDUSTRY 3295.--MINERALS, GROUND OR TREATED											
1972 Census.....	9,218	(NA)	80	2,116	3.98	.43	.64	(NA)	24,895	37	14.7
1971 ASM.....	8,204	33,530	81	2,176	3.55	.42	.64	.91	21,053	39	12.02
1970 ASM.....	7,991	32,590	83	2,155	3.45	.41	.63	.91	21,530	37	12.05
1969 ASM.....	7,257	31,050	79	2,105	3.20	.41	.63	.91	20,413	36	12.29
1968 ASM.....	7,167	29,170	79	2,105	3.15	.46	.67	.84	19,031	38	11.42
1967 Census.....	6,688	30,070	78	2,067	2.90	.47	.68	.95	16,849	40	10.39
1966 ASM.....	6,552	(NA)	76	2,135	2.81	.44	.64	(NA)	18,510	35	11.36
1965 ASM.....	6,138	(NA)	77	2,112	2.66	.46	.66	(NA)	16,631	37	10.22
1964 ASM.....	5,986	20,900	76	2,040	2.70	.50	.71	.72	14,593	41	9.48
1963 Census.....	5,671	20,320	78	2,066	2.52	.50	.70	.73	13,926	41	8.69
1962 ASM.....	5,712	16,470	76	2,135	2.52	.45	.67	.63	14,969	38	9.19
1961 ASM.....	5,504	(NA)	76	2,175	2.40	.45	.66	(NA)	14,605	38	8.89
1960 ASM.....	5,426	(NA)	78	2,108	2.40	.43	.64	(NA)	14,804	37	9.06
1959 ASM.....	5,365	(NA)	78	2,068	2.40	.44	.64	(NA)	15,347	35	9.46
1958 Census.....	5,092	(NA)	78	2,080	2.26	.46	.66	(NA)	13,917	37	8.55
INDUSTRY 3296.--MINERAL WOOL											
1972 Census.....	9,572	(NA)	82	2,095	4.41	.42	.65	(NA)	24,527	39	14.33
1971 ASM.....	9,056	25,950	81	2,168	4.06	.42	.65	.66	22,685	40	12.94
1970 ASM.....	8,494	24,280	81	2,086	3.92	.44	.68	.69	20,304	42	12.02
1969 ASM.....	8,092	21,680	81	2,097	3.75	.42	.65	.61	20,614	39	12.13
1968 ASM.....	7,697	20,990	81	2,103	3.57	.43	.66	.63	19,276	40	11.36
1967 Census.....	7,085	19,500	81	2,093	3.30	.45	.69	.65	16,385	43	9.71
1966 ASM.....	6,761	(NA)	80	2,124	3.08	.47	.70	(NA)	15,660	43	9.23
1965 ASM.....	6,451	(NA)	79	2,137	2.98	.47	.70	(NA)	14,786	44	8.73
1964 ASM.....	6,167	17,320	80	2,081	2.86	.46	.69	.65	14,589	42	8.77
1963 Census.....	6,268	16,730	79	2,128	2.79	.48	.71	.63	14,040	45	8.35
1962 ASM.....	6,312	14,980	80	2,086	2.69	.47	.71	.56	14,397	44	8.60
1961 ASM.....	5,809	(NA)	80	2,125	2.52	.47	.70	(NA)	13,830	42	8.10
1960 ASM.....	5,488	(NA)	80	2,001	2.51	.47	.70	(NA)	12,855	43	8.03
1959 ASM.....	5,362	(NA)	78	2,153	2.34	.47	.70	(NA)	12,472	43	7.41
1958 Census.....	4,968	(NA)	76	2,072	2.29	.69	.69	(NA)	11,216	44	7.13

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3297.--NONCLAY REFRACTORIES											
1972 Census.....	9,629	(NA)	74	2,116	4.28	.44	.67	(NA)	23,518	41	15.00
1971 ASM.....	8,843	30,530	71	2,000	4.05	.45	.68	.82	20,719	43	14.64
1970 ASM.....	8,505	27,850	75	2,041	3.84	.46	.70	.78	19,980	43	13.10
1969 ASM.....	8,234	28,400	77	2,056	3.62	.46	.68	.77	19,766	42	12.55
1968 ASM.....	7,663	26,570	75	2,028	3.43	.48	.71	.80	17,337	44	11.44
1967 Census.....	7,283	25,420	75	1,985	3.35	.49	.72	.82	16,039	45	10.75
1966 ASM.....	6,958	(NA)	78	2,030	3.15	.49	.71	(NA)	16,756	42	10.60
1965 ASM.....	6,821	(NA)	79	2,048	3.06	.50	.72	(NA)	16,339	42	10.04
1964 ASM.....	6,536	22,320	80	2,060	2.91	.50	.71	.72	15,742	42	9.60
1963 Census.....	6,226	22,470	79	1,980	2.87	.49	.71	.77	15,065	41	9.58
1962 ASM.....	5,887	24,640	78	1,927	2.78	.48	.71	.95	13,480	44	8.94
1961 ASM.....	5,727	(NA)	78	1,876	2.79	.46	.69	(NA)	13,176	43	8.95
1960 ASM.....	5,447	(NA)	81	1,862	2.68	.46	.70	(NA)	12,648	43	8.43
1959 ASM.....	5,501	(NA)	81	1,907	2.69	.45	.70	(NA)	12,932	43	8.36
1958 Census.....	5,138	(NA)	79	1,843	2.60	.42	.65	(NA)	12,774	40	8.78
INDUSTRY 3299.--NONMETALLIC MINERAL PRODUCTS, N.E.C.											
1972 Census.....	7,301	(NA)	83	1,904	3.22	.35	.63	(NA)	16,619	44	10.58
1971 ASM.....	7,583	15,730	79	2,000	3.33	.41	.71	.61	15,167	50	9.58
1970 ASM.....	7,119	13,210	79	2,000	3.00	.39	.69	.56	14,405	50	9.17
1969 ASM.....	6,213	9,720	79	1,811	2.94	.45	.73	.44	12,277	51	8.61
1968 ASM.....	6,041	9,860	82	1,850	2.81	.44	.73	.48	11,551	52	7.65
1967 Census.....	5,775	9,400	82	1,920	2.54	.44	.74	.50	10,703	54	6.84
1966 ASM.....	5,566	(NA)	81	2,036	2.31	.42	.73	(NA)	10,661	52	6.44
1965 ASM.....	5,198	(NA)	82	2,139	2.13	.43	.71	(NA)	10,642	49	6.08
1964 ASM.....	4,869	8,060	79	1,962	2.18	.47	.73	.43	9,999	49	6.47
1963 Census.....	4,952	7,450	80	1,895	2.21	.45	.73	.43	9,740	51	6.45
1962 ASM.....	2,769	18,650	87	1,336	1.58	.55	.68	.87	9,226	30	7.91
1961 ASM.....	3,085	(NA)	83	1,914	1.45	.56	.68	(NA)	10,588	29	6.64
1960 ASM.....	5,119	(NA)	76	3,337	.99	.55	.77	(NA)	10,385	49	4.12
1959 ASM.....	3,484	(NA)	84	2,271	1.38	.46	.78	(NA)	5,870	59	3.07
1958 Census.....	3,935	(NA)	79	1,919	1.77	.46	.74	(NA)	7,408	53	4.89

(NA) Not available.

¹See table 1A, footnote 2.²See table 1A, footnote 3.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3292.--Asbestos Products.....	142	97	21.0	426.1	763.4	(X)	(X)	(X)	(X)	(X)
Old industry 3292.--Asbestos Products.....	132	90	20.2	409.2	731.2	132	95	20.8	418.2	445.9
Old industry 3293.--Gaskets, Packing and Sealing Devices..	10	7	.8	16.9	32.2	288	116	13.6	202.7	353.9
New industry 3293.--Gaskets, Packing and Sealing Devices....	374	184	27.7	428.5	665.4	(X)	(X)	(X)	(X)	(X)
Old industry 3293.--Gaskets and Insulations.....	281	111	12.8	186.5	323.5	288	116	13.6	202.7	353.9
Old industry 3069.--Fabricated Rubber Products, N.E.C.....	66	57	11.9	183.4	247.9	1,300	450	143.6	2,396.6	4,145.8
Old industry 3079.--Miscellaneous Plastics Products.....	16	12	1.2	18.3	27.6	7,174	3,176	328.1	5,526.6	9,758.6
Old industry 3121.--Industrial Leather Belting.....										
Old industry 3599.--Miscellaneous Machinery, Except Electrical.....	11	4	1.8	40.3	66.4	16,433	2,023	187.0	3,068.0	4,484.0

(X) Not applicable.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3291-- ABRASIVE PRODUCTS													
UNITED STATES	392	167	24.5	229.4	17.2	33.1	138.1	529.6	361.6	888.1	17.2	27.2	420.7
NORTHEAST REGION	146	75	15.2	150.0	10.3	20.0	88.2	308.0	207.7	514.8	(D)	18.4	270.3
NEW ENGLAND DIVISION	43	29	6.5	66.1	4.2	7.8	36.2	138.8	82.0	218.5	(D)	7.4	108.8
MASSACHUSETTS	27	20	5.8	60.3	3.7	7.0	32.9	127.1	69.2	194.0	(D)	6.5	95.8
CONNECTICUT E2	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	10.5
MIDDLE ATLANTIC DIVISION	103	46	8.8	83.9	6.1	12.2	52.1	169.3	125.7	296.3	(D)	11.0	161.5
NEW YORK	47	19	6.7	64.4	4.7	9.3	40.2	132.3	99.7	233.3	(D)	8.2	122.3
NEW JERSEY	24	7	.5	4.5	.3	.7	2.5	7.7	6.5	14.2	(D)	.8	9.9
PENNSYLVANIA E1	32	20	1.6	15.0	1.1	2.2	9.4	29.3	19.6	48.9	(D)	2.0	29.3
NORTH CENTRAL REGION	159	70	7.4	64.2	5.4	10.3	39.8	188.0	125.3	311.4	(D)	7.6	132.3
EAST NORTH CENTRAL DIVISION	150	66	7.0	61.2	5.2	9.8	38.0	179.9	110.8	289.1	(D)	FF	(D)
OHIO	38	19	2.6	21.6	1.9	3.6	13.8	71.1	30.7	102.4	(D)	2.4	33.3
INDIANA	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.8
ILLINOIS	46	21	2.1	18.2	1.5	2.8	10.7	50.7	27.4	77.4	(D)	EE	(D)
MICHIGAN	50	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	31.0
WISCONSIN	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION	9	4	.3	3.0	.2	.5	1.9	8.1	14.5	22.3	(D)	FF	(D)
MINNESOTA	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION E2	39	15	1.0	6.7	.8	1.5	4.4	14.8	15.5	30.0	(D)	.5	5.2
SOUTH ATLANTIC DIVISION E1	15	5	.3	2.2	.2	.5	1.3	5.5	5.4	10.9	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION E3	10	5	.5	3.2	.4	.8	2.2	6.1	8.2	14.0	(D)	.3	2.5
TENNESSEE	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA E6	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION E3	14	5	.2	1.3	.2	.3	.9	3.2	1.9	5.1	(D)	(NA)	(NA)
TEXAS	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION E1	48	7	.9	8.4	.7	1.4	5.6	18.9	13.1	31.9	.7	.8	12.9
PACIFIC DIVISION E1	43	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WASHINGTON	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA E1	38	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	8.7
3292-- ASBESTOS PRODUCTS													
UNITED STATES	142	97	21.0	191.1	16.6	34.4	142.8	426.1	343.5	763.4	20.4	(NA)	(NA)
NORTHEAST REGION	54	37	8.5	78.9	6.7	13.7	57.9	157.7	125.8	285.7	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	11	9	2.3	22.2	1.8	3.8	15.9	43.2	33.9	81.3	(D)	(NA)	(NA)
NEW HAMPSHIRE	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	43	28	6.1	56.7	4.8	9.9	42.0	114.4	92.0	204.4	(D)	(NA)	(NA)
NEW YORK	13	6	1.8	15.5	1.4	2.9	11.8	33.6	27.7	61.3	(D)	(NA)	(NA)
NEW JERSEY	15	11	2.1	20.3	1.7	3.4	15.6	40.5	34.6	74.0	(D)	(NA)	(NA)
PENNSYLVANIA	15	11	2.3	20.9	1.7	3.6	14.6	40.3	29.6	69.0	(D)	(NA)	(NA)
NORTH CENTRAL REGION	33	21	4.7	44.9	3.7	7.4	34.3	97.7	85.1	181.0	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	25	19	4.3	41.4	3.4	6.7	31.4	92.8	77.6	169.2	(D)	(NA)	(NA)
OHIO	8	5	1.0	9.2	.8	1.6	7.2	20.0	18.3	38.5	(D)	(NA)	(NA)
INDIANA	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	11	9	2.4	24.4	1.9	3.8	18.9	59.9	51.1	109.9	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	8	2	.4	3.6	.3	.6	2.9	4.9	7.5	11.8	(D)	(NA)	(NA)
MISSOURI	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	32	24	5.7	43.7	4.6	9.6	32.8	112.5	83.2	191.2	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION	12	8	2.7	19.9	2.3	4.8	15.5	42.8	28.3	70.8	(D)	(NA)	(NA)
VIRGINIA	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	8	8	1.2	8.3	.9	1.8	5.7	23.5	15.6	38.6	(D)	(NA)	(NA)
KENTUCKY	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	12	8	1.8	15.5	1.4	3.0	11.6	46.3	39.3	81.8	(D)	(NA)	(NA)
LOUISIANA	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	6	4	1.2	10.3	.9	2.0	7.6	35.8	26.9	59.9	(D)	(NA)	(NA)
WEST REGION	23	15	2.2	23.5	1.6	3.7	17.8	58.2	49.3	105.4	3.5	(NA)	(NA)
PACIFIC DIVISION	21	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	19	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3293-- GASKETS, PACKING, SEALING DEVICES													
UNITED STATES	374	184	27.7	220.4	21.1	42.7	146.9	428.5	252.6	665.4	24.9	18.5	205.5
NORTHEAST REGION	109	56	6.7	58.4	4.9	10.0	36.7	109.0	58.5	164.3	(D)	5.2	67.5
NEW ENGLAND DIVISION	32	18	2.1	18.3	1.6	3.3	10.7	29.5	15.8	44.8	(D)	1.1	13.2
NEW HAMPSHIRE	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	15	5	.4	3.8	.3	.7	2.2	7.1	5.2	12.4	(D)	.5	8.5
CONNECTICUT	14	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.7

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ²	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3293-- GASKETS, PACKING, SEALING DEVICES--CONTINUED													
NORTHEAST REGION--CONTINUED													
MIDDLE ATLANTIC DIVISION	77	38	4.6	40.1	3.3	6.6	26.0	79.5	42.8	119.6	(D)	4.1	54.3
NEW YORK E1	32	13	.8	5.9	.5	1.0	3.2	11.8	8.7	20.5	(D)	.5	7.1
NEW JERSEY	21	10	1.9	18.2	1.4	3.0	12.5	38.1	16.8	52.1	(D)	2.3	31.1
PENNSYLVANIA	24	15	1.9	16.0	1.4	2.7	10.3	29.6	17.3	46.9	(D)	1.3	16.0
NORTH CENTRAL REGION	137	68	12.1	99.7	9.1	18.8	67.9	209.5	136.9	336.8	(D)	9.3	97.4
EAST NORTH CENTRAL DIVISION. . .	119	60	11.8	97.5	8.8	18.3	66.5	204.5	132.8	327.7	(D)	9.1	94.7
OHIO	34	15	1.7	13.4	1.3	2.7	9.5	28.2	14.0	41.7	(D)	CC	(D)
INDIANA	10	6	1.6	12.4	1.4	2.8	9.4	25.0	12.3	37.3	(D)	CC	(D)
ILLINOIS	43	21	6.3	54.5	4.5	9.4	36.0	118.2	75.6	185.6	(D)	5.5	57.9
MICHIGAN	22	15	1.6	13.5	1.3	2.6	9.0	26.9	22.8	48.8	(D)	1.3	14.7
WISCONSIN	10	3	.5	3.7	.4	.9	2.6	6.2	8.0	14.3	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION. . E1	18	8	.3	2.2	.2	.5	1.4	5.0	4.1	9.0	(D)	.2	2.6
SOUTH REGION	65	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	23.8
SOUTH ATLANTIC DIVISION. . . .	17	10	1.5	9.5	1.2	2.5	6.7	16.2	10.2	25.6	(D)	.7	5.1
MARYLAND E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST VIRGINIA	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.4
KENTUCKY	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ALABAMA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	37	18	1.8	13.3	1.5	2.9	9.3	23.8	15.4	38.3	(D)	1.4	15.3
OKLAHOMA	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	30	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.8
WEST REGION. E1	63	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	16.8
MOUNTAIN DIVISION.	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E1	55	20	2.4	18.9	1.8	3.6	11.5	28.5	13.1	41.5	1.2	EE	(D)
CALIFORNIA E1	51	20	2.4	18.8	1.8	3.6	11.4	28.1	12.8	40.8	(D)	1.5	16.2
3295-- MINERALS, GROUND OR TREATED													
UNITED STATES. E1	492	154	9.6	88.5	7.7	16.3	65.1	239.0	178.0	414.4	30.4	8.9	149.4
NORTHEAST REGION	108	38	2.2	22.0	1.8	3.8	16.2	53.0	38.3	91.5	(D)	2.0	35.7
NEW ENGLAND DIVISION E1	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.8
MIDDLE ATLANTIC DIVISION	91	35	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	33.5
NEW YORK	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	6.1
NEW JERSEY	26	7	.6	6.3	.5	.9	4.1	13.9	16.9	31.9	(D)	.6	9.4
PENNSYLVANIA	51	22	1.1	10.9	.9	1.9	8.5	25.9	14.1	39.3	(D)	1.0	18.0
NORTH CENTRAL REGION	120	37	2.2	22.5	1.8	3.8	16.0	60.1	50.9	110.4	(D)	2.2	44.0
EAST NORTH CENTRAL DIVISION. . .	90	32	1.9	19.3	1.5	3.2	13.7	50.4	44.2	94.1	(D)	2.0	38.9
OHIO	30	12	.7	7.7	.6	1.2	5.7	19.2	8.1	27.2	(D)	.7	14.2
INDIANA E1	11	4	.3	3.0	.2	.5	2.5	8.9	3.1	11.8	(D)	.2	4.7
ILLINOIS E1	17	6	.3	3.1	.2	.5	1.9	6.6	8.8	15.5	(D)	.6	9.7
MICHIGAN	18	9	.4	4.6	.4	.8	2.8	13.3	22.3	35.5	(D)	.3	9.0
WEST NORTH CENTRAL DIVISION. . E1	30	5	.4	3.2	.3	.6	2.3	9.7	6.6	16.3	(D)	.3	5.1
MISSOURI E1	13	3	.2	1.8	.2	.4	1.4	5.1	3.8	8.9	(D)	(NA)	(NA)
SOUTH REGION E1	152	55	3.3	26.2	2.7	5.7	19.4	75.7	59.2	133.9	(D)	3.1	43.3
SOUTH ATLANTIC DIVISION. . . . E1	58	22	1.6	13.5	1.2	2.7	9.9	36.5	24.8	61.0	(D)	1.3	16.6
MARYLAND	7	3	.3	2.9	.3	.5	2.1	9.5	3.7	13.1	(D)	BB	(D)
VIRGINIA	10	6	.3	2.3	.2	.5	1.7	5.0	5.1	10.0	(D)	(NA)	(NA)
WEST VIRGINIA E2	6	3	.2	1.6	.1	.3	1.4	4.2	1.3	5.2	(D)	(NA)	(NA)
NORTH CAROLINA E6	10	1	.1	.6	—	.1	.4	1.9	1.3	3.2	(D)	.2	1.9
GEORGIA	7	5	.5	4.3	.4	.8	2.9	11.2	8.9	20.1	(D)	.4	4.9
EAST SOUTH CENTRAL DIVISION. . E2	32	13	.6	4.5	.5	1.1	3.4	17.0	7.8	23.9	(D)	.7	11.4
ALABAMA	14	6	.2	1.7	.2	.4	1.2	6.2	3.4	9.4	(D)	.4	6.2
WEST SOUTH CENTRAL DIVISION. . E1	62	20	1.2	8.3	.9	1.9	6.0	22.2	26.5	48.9	(D)	1.1	15.3
LOUISIANA E1	7	4	.2	1.5	.2	.3	1.1	5.0	9.8	15.1	(D)	(NA)	(NA)
TEXAS E1	43	14	.8	5.4	.6	1.2	3.8	13.3	12.7	25.9	(D)	.9	11.3
WEST REGION. E1	112	24	1.9	17.8	1.5	3.1	13.4	50.1	29.7	78.6	3.3	1.6	26.4
MOUNTAIN DIVISION.	41	8	.5	4.9	.4	.9	4.0	15.4	8.0	22.6	1.5	.4	7.4
PACIFIC DIVISION E1	71	16	1.3	12.9	1.0	2.2	9.4	34.7	21.6	56.0	1.7	1.2	18.3
OREGON E5	18	3	.2	2.0	.2	.4	1.6	4.6	2.1	6.6	.4	(NA)	(NA)
CALIFORNIA	35	12	1.0	10.2	.8	1.6	7.3	28.8	18.4	46.9	(D)	.9	15.2

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3296-- MINERAL WOOL													
UNITED STATES.	108	75	18.0	172.3	14.7	30.8	135.7	441.5	315.6	755.4	50.1	15.1	247.3
NORTHEAST REGION.	23	16	3.4	32.8	2.7	5.6	24.7	93.7	60.3	153.8	(D)	3.0	49.7
MIDDLE ATLANTIC DIVISION.	21	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY.	8	6	1.9	19.2	1.5	3.1	14.5	54.9	37.1	92.3	(D)	2.0	30.8
PENNSYLVANIA.	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	14.4
NORTH CENTRAL REGION.	42	30	9.4	91.5	7.8	16.4	74.4	202.7	164.1	365.2	(D)	8.6	127.9
EAST NORTH CENTRAL DIVISION.	30	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO.	11	10	4.1	41.3	3.4	7.2	34.1	86.3	78.6	164.5	(D)	FF	(D)
INDIANA.	11	10	2.1	17.9	1.7	3.5	13.9	30.5	31.6	61.9	(D)	1.9	24.8
WEST NORTH CENTRAL DIVISION.	12	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
KANSAS.	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION.	26	20	3.4	30.6	2.8	6.0	23.0	101.7	62.2	163.7	(D)	2.1	44.7
SOUTH ATLANTIC DIVISION.	8	8	1.6	15.0	1.4	2.7	11.6	49.6	26.6	75.9	(D)	1.2	30.0
WEST VIRGINIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
GEORGIA.	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
EAST SOUTH CENTRAL DIVISION.	8	6	.9	7.7	.8	1.7	5.7	19.3	17.4	36.7	(D)	.4	5.1
ALABAMA.	3	3	.3	2.5	.2	.5	1.9	7.0	3.5	10.6	(D)	.3	3.8
MISSISSIPPI.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	10	6	.8	7.8	.7	1.5	5.7	32.8	18.2	51.1	(D)	CC	(D)
TEXAS.	10	6	.8	7.8	.7	1.5	5.7	32.8	18.2	51.1	(D)	.6	9.4
WEST REGION.	17	9	1.7	17.4	1.4	2.8	13.6	43.5	29.0	72.7	4.9	1.4	25.0
MOUNTAIN DIVISION. E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA.	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3297-- NONCLAY REFRACTORIES													
UNITED STATES.	89	59	8.1	78.0	6.0	12.7	54.3	190.5	150.2	342.1	9.3	9.9	158.7
NORTHEAST REGION.	33	27	3.5	34.5	2.5	5.3	22.9	60.5	57.0	117.6	(D)	4.5	60.2
MIDDLE ATLANTIC DIVISION.	30	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.9
NEW JERSEY.	4	4	.7	6.7	.4	.7	3.3	13.0	11.7	24.7	(D)	.8	11.3
PENNSYLVANIA.	23	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	37.0
NORTH CENTRAL REGION.	35	21	2.1	20.7	1.4	3.1	13.2	69.3	50.4	119.7	(D)	2.9	56.3
EAST NORTH CENTRAL DIVISION.	34	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	56.3
OHIO.	14	7	1.1	11.5	.8	1.7	6.9	38.3	28.1	65.8	.7	1.7	35.8
INDIANA.	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS.	9	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.1
MICHIGAN.	5	3	.2	2.2	.1	.3	1.4	4.2	5.7	10.0	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	33.8
SOUTH ATLANTIC DIVISION.	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST VIRGINIA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.5
KENTUCKY.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION.	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	8.3
PACIFIC DIVISION.	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA.	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3299-- NONMETALLIC MINERAL PRODUCTS, NEC													
UNITED STATES. E1	491	81	6.3	46.0	5.2	9.9	31.9	104.7	58.7	166.5	5.0	5.3	56.8
NORTHEAST REGION. E1	109	25	1.9	14.2	1.6	3.0	9.8	32.0	13.5	45.1	(D)	2.6	28.7
NEW ENGLAND DIVISION. E1	20	4	.5	2.8	.3	.6	1.7	6.3	3.5	9.5	(D)	.6	5.4
NEW HAMPSHIRE.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS. E1	12	2	.2	1.2	.2	.3	.8	2.7	1.8	4.5	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION. E1	89	21	1.5	11.4	1.2	2.3	8.1	25.7	10.0	35.6	(D)	2.0	23.3
NEW YORK. E1	52	9	.8	5.6	.6	1.2	3.9	10.8	4.0	15.0	(D)	1.4	18.2
NEW JERSEY.	24	9	.5	4.3	.4	.9	3.2	12.5	4.2	16.6	(D)	.3	2.9
PENNSYLVANIA. E1	13	3	.2	1.5	.1	.2	.9	2.3	1.8	4.0	(D)	.3	2.3
NORTH CENTRAL REGION. E1	123	16	1.5	11.3	1.2	2.5	8.4	23.8	16.8	44.2	(D)	1.3	15.4
EAST NORTH CENTRAL DIVISION. E1	89	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	14.2
OHIO.	28	4	.5	3.3	.4	.9	2.5	8.7	3.5	12.2	(D)	.4	5.7
ILLINOIS. E1	26	7	.5	4.9	.4	1.0	3.9	7.7	8.3	19.8	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION. E5	34	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.2

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3299-- NONMETALLIC MINERAL PRODUCTS, NEC--CONTINUED													
SOUTH REGION E1	127	19	1.5	10.6	1.3	2.4	7.5	26.5	15.5	42.1	(D)	.9	7.9
SOUTH ATLANTIC DIVISION. . . . E2	41	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	5.3
VIRGINIA	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.5
FLORIDA E1	13	3	.2	1.1	.1	.2	.6	2.9	2.3	5.2	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	21	4	.5	4.8	.4	.9	3.7	14.6	8.0	22.7	(D)	(NA)	(NA)
KENTUCKY	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E4	65	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS E5	46	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. E2	132	21	1.4	10.0	1.1	2.0	6.2	22.3	13.1	35.1	(D)	.5	4.8
MOUNTAIN DIVISION. E2	30	5	.3	1.9	.2	.4	1.1	4.7	3.2	7.7	.3	(NA)	(NA)
PACIFIC DIVISION E2	102	16	1.1	8.1	.9	1.6	5.1	17.6	9.9	27.4	(D)	.4	3.9
CALIFORNIA E2	85	15	.9	7.2	.8	1.4	4.5	14.5	8.6	23.0	(D)	.4	3.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis: 1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3292-- ASBESTOS PRODUCTS													
United States.....	137	95	20.8	186.5	16.6	34.4	140.9	418.2	334.4	745.9	19.9	21.3	308.1
Northeast Region.....	47	32	7.8	72.3	6.2	12.9	54.1	143.1	111.7	257.0	(D)	9.5	126.2
New England Division...	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	34.6
New Hampshire.....	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts.....	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.5
Connecticut.....	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Div....	37	24	5.7	52.5	4.5	9.3	38.8	106.2	82.5	186.3	(D)	6.7	91.6
New York.....	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	27.2
New Jersey.....	12	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	35.1
Pennsylvania.....	13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	29.4
North Central Region.	33	21	4.7	44.9	3.7	7.4	34.3	97.7	85.1	181.0	(D)	4.5	70.3
East North Central Div.	25	19	4.3	41.4	3.4	6.7	31.4	92.8	77.6	169.2	(D)	4.1	62.5
Ohio.....	8	5	1.0	9.2	.8	1.6	7.2	20.0	18.3	38.5	(D)	.7	8.8
Indiana.....	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.9
Illinois.....	11	9	2.4	24.4	1.9	3.8	18.9	59.9	51.1	109.9	(D)	2.5	44.5
West North Central Div.	8	2	.4	3.6	.3	.6	2.9	4.9	7.5	11.8	(D)	.5	7.8
Missouri.....	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Region.....	33	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.1	73.8
South Atlantic Div....	13	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	34.8
Virginia.....	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina.....	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Carolina.....	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Florida.....	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East South Central Div.	8	8	1.2	8.3	.9	1.8	5.7	23.5	15.6	38.6	(D)	.3	5.9
Kentucky.....	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee.....	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama.....	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Mississippi.....	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Div.													
Louisiana.....	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas.....	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West Region.....	24	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	37.8
Pacific Division.....	21	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
California.....	18	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Abrasive products (SIC 3291)	Asbestos products (SIC 3292)	Gaskets, packing and sealing devices (SIC 3293)	Minerals, ground or treated (SIC 3295)	Mineral wool (SIC 3296)	Nonclay refractories (SIC 3297)	Nonmetallic mineral products, n.e.c. (SIC 3299)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT .	93	91	89	95	93	94	94
COVERAGE RATIO ² DO	88	88	81	89	93	84	90
ESTABLISHMENTS, TOTAL NUMBER .	392	142	374	492	108	89	491
WITH 1 TO 19 EMPLOYEES DO	225	45	190	338	33	30	410
WITH 20 TO 99 EMPLOYEES DO	123	31	122	140	33	34	70
WITH 100 EMPLOYEES OR MORE DO	44	66	62	14	42	25	11
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000 .	24.5	21.0	27.7	9.6	18.0	8.1	6.3
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS .	229.4	191.1	220.4	88.5	172.3	78.0	46.0
PRODUCTION WORKERS:							
AVERAGE FOR YEAR 1,000 .	17.2	16.6	21.1	7.7	14.7	6.0	5.2
MARCH DO	16.6	16.4	20.1	7.4	14.5	5.4	5.1
MAY DO	16.9	16.6	20.8	7.7	14.4	5.8	5.1
AUGUST DO	17.5	16.7	21.4	7.9	14.7	6.3	5.2
NOVEMBER DO	17.7	16.8	22.2	7.8	15.3	6.4	5.4
MAN-HOURS MILLIONS .	33.1	34.4	42.7	16.3	30.8	12.7	9.9
JANUARY-MARCH DO	8.0	8.5	10.1	3.7	7.5	2.8	2.4
APRIL-JUNE DO	8.5	8.8	10.6	4.1	7.6	3.1	2.5
JULY-SEPTEMBER DO	8.0	8.5	10.7	4.3	7.7	3.4	2.4
OCTOBER-DECEMBER DO	8.6	8.6	11.4	4.3	8.0	3.4	2.5
WAGES MILLION DOLLARS .	138.1	142.8	146.9	65.1	135.7	54.3	31.9
COST OF MATERIALS, ETC., TOTAL DO	361.6	343.5	252.6	178.0	315.6	150.2	58.7
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED DO	309.7	289.0	228.1	141.2	257.9	131.2	48.2
COST OF REALES DO	33.7	37.2	12.0	11.7	18.0	4.7	3.4
FUELS CONSUMED DO	6.9	8.2	3.5	13.4	25.6	8.8	4.1
PURCHASED ELECTRIC ENERGY DO	8.9	8.8	5.5	8.3	13.8	5.1	1.9
CONTRACT WORK DO	2.4	.3	3.5	3.7	.3	.6	1.1
VALUE OF SHIPMENTS, INCLUDING REALES DO	888.1	763.4	665.4	414.4	755.4	342.1	166.5
VALUE OF REALES DO	40.5	47.9	16.5	13.7	20.1	6.0	5.3
VALUE ADDED BY MANUFACTURE DO	529.6	426.1	428.5	239.0	441.5	190.5	104.7
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL DO	142.2	131.7	80.9	35.2	49.6	85.8	19.1
FINISHED PRODUCTS DO	67.9	78.6	34.1	14.4	25.7	39.8	10.4
WORK IN PROCESS DO	32.1	19.1	23.8	5.9	1.9	8.4	3.8
MATERIALS, SUPPLIES, FUEL, ETC. DO	42.2	34.0	23.0	14.7	22.0	37.5	4.9
END OF YEAR, TOTAL DO	147.9	136.2	101.9	40.4	54.9	80.9	16.1
FINISHED PRODUCTS DO	68.2	82.1	44.2	17.2	26.6	37.2	7.1
WORK IN PROCESS DO	35.0	21.8	29.4	5.7	2.7	9.7	4.1
MATERIALS, SUPPLIES, FUEL, ETC. DO	44.7	32.3	28.3	17.6	25.6	34.1	5.0
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	19.6	21.3	26.2	32.4	55.0	9.7	5.3
NEW PLANT AND EQUIPMENT, TOTAL DO	17.2	20.4	24.9	30.4	50.1	9.3	5.0
NEW STRUCTURES AND ADDITIONS TO PLANT DO	3.3	2.8	6.6	4.5	9.2	1.4	.9
NEW MACHINERY AND EQUIPMENT DO	13.9	17.7	18.4	25.8	40.9	7.9	4.1
USED PLANT AND EQUIPMENT DO	2.4	.9	1.3	2.0	5.0	.4	.2

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3291-- ABRASIVE PRODUCTS											
ESTABLISHMENTS, TOTAL	392	24.5	229.4	17.2	33.1	138.1	529.6	361.6	888.1	17.2	147.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	114	.2	1.8	.2	.3	1.1	5.2	4.0	9.2	.3	1.6
5 TO 9 EMPLOYEES E6	54	.4	3.0	.2	.5	1.8	7.4	5.4	12.9	.4	2.1
10 TO 19 EMPLOYEES E1	57	.8	6.8	.6	1.1	3.8	14.4	10.6	24.8	.8	3.5
20 TO 49 EMPLOYEES E1	84	2.6	21.3	1.9	3.8	13.6	44.6	42.9	87.9	1.8	11.9
50 TO 99 EMPLOYEES E1	39	2.8	23.0	2.0	3.8	13.0	53.4	46.2	98.9	1.5	14.8
100 TO 249 EMPLOYEES	26	3.8	33.3	2.9	5.7	21.7	68.8	67.6	133.9	2.9	24.0
250 TO 499 EMPLOYEES	12	14.0	140.2	9.3	18.1	83.2	335.7	184.9	520.4	9.5	90.1
500 TO 999 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS, COVERED BY ADMIN. RECORD ¹ .	123	.4	3.0	.3	.5	1.8	8.2	5.8	13.9	.5	2.8
3292-- ASBESTOS PRODUCTS											
ESTABLISHMENTS, TOTAL	142	21.0	191.1	16.6	34.4	142.8	426.1	343.5	763.4	20.4	136.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	12	(Z)	.2	(Z)	(Z)	.2	.4	.2	.7	(Z)	.1
5 TO 9 EMPLOYEES E6	20	.1	1.1	.1	.2	.8	2.5	2.3	4.9	.1	.8
10 TO 19 EMPLOYEES E2	13	.2	1.5	.1	.3	1.0	7.4	4.6	7.4	.1	1.1
20 TO 49 EMPLOYEES	16	.5	4.1	.7	.7	2.8	7.4	8.1	15.8	.2	1.7
50 TO 99 EMPLOYEES E1	15	1.1	10.2	.8	1.7	6.6	15.6	14.9	30.7	1.4	6.0
100 TO 249 EMPLOYEES	40	6.4	56.5	5.0	10.4	41.0	132.6	120.3	246.8	6.2	48.2
250 TO 499 EMPLOYEES	19	6.3	59.0	5.1	10.6	45.5	141.4	119.1	255.6	8.3	46.4
500 TO 999 EMPLOYEES	5	6.3	58.5	5.1	10.5	45.0	123.4	74.1	201.5	4.1	31.8
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS, COVERED BY ADMIN. RECORD ¹ .	15	.1	.5	.1	.1	.4	1.4	1.2	2.6	.1	.5

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3293-- GASKETS, PACKING, SEALING DEVICES											
ESTABLISHMENTS, TOTAL,	374	27.7	220.4	21.1	42.7	146.9	428.5	252.6	665.4	24.9	101.9
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E9	70	.2	1.2	.1	.2	.7	3.9	2.6	6.5	.2	1.0
5 TO 9 EMPLOYEES E6	58	.4	3.2	.3	.6	2.0	7.1	4.8	11.9	.4	1.6
10 TO 19 EMPLOYEES E1	62	.9	6.6	.7	1.2	3.9	13.5	11.5	24.7	.8	3.1
20 TO 49 EMPLOYEES E1	88	2.7	19.5	2.1	4.1	12.0	38.5	30.1	68.4	3.0	7.3
50 TO 99 EMPLOYEES	34	2.3	19.4	1.6	3.3	10.9	35.2	28.9	63.5	1.7	8.2
100 TO 249 EMPLOYEES	36	6.0	44.8	4.7	9.4	29.8	81.0	49.4	129.2	5.9	19.6
250 TO 499 EMPLOYEES	15	5.2	41.6	4.1	8.3	29.5	69.4	42.4	108.9	4.3	14.6
500 TO 999 EMPLOYEES	7	5.0	42.1	4.0	8.3	29.9	81.6	33.0	112.0	3.8	14.0
1,000 TO 2,499 EMPLOYEES	4	5.1	42.1	3.5	7.3	28.4	98.3	48.8	140.3	4.8	32.6
ESTABS. COVERED BY ADMIN. RECORD ¹ .	100	.4	3.0	.3	.6	1.9	8.2	5.5	13.7	.5	2.1
3295-- MINERALS, GROUND OR TREATED											
ESTABLISHMENTS, TOTAL, E1	492	9.6	88.5	7.7	16.3	65.1	239.0	178.0	414.4	30.4	40.4
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E3	146	.2	2.1	.2	.4	1.6	5.2	5.3	11.5	10.4	1.1
5 TO 9 EMPLOYEES E3	81	.5	4.7	.4	.9	3.5	12.5	11.5	23.9	(D)	1.9
10 TO 19 EMPLOYEES E1	111	1.5	12.6	1.2	2.4	8.8	35.2	28.1	62.8	4.2	6.7
20 TO 49 EMPLOYEES	110	3.4	31.2	2.8	5.9	23.3	87.1	60.9	145.4	9.4	13.4
50 TO 99 EMPLOYEES E1	30	2.0	19.0	1.5	3.3	13.1	46.2	37.6	83.7	4.3	11.2
100 TO 249 EMPLOYEES	14	1.9	19.0	1.5	3.3	14.8	52.9	34.7	87.0	2.0	6.1
ESTABS. COVERED BY ADMIN. RECORD ¹ .	142	.4	3.5	.4	.8	2.6	9.5	6.2	15.7	1.0	1.7
3296-- MINERAL WOOL											
ESTABLISHMENTS, TOTAL,	108	18.0	172.3	14.7	30.8	135.7	441.5	315.6	755.4	50.1	54.9
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E7	19	(Z)	.4	(Z)	.1	.2	1.0	.8	1.8	.1	.1
5 TO 9 EMPLOYEES E7	7	(Z)	.4	(Z)	.1	.2	1.1	.7	1.8	.1	.2
10 TO 19 EMPLOYEES	7	.1	.7	.1	.1	.4	1.7	3.4	5.1	.2	.6
20 TO 49 EMPLOYEES E2	17	.4	3.4	.3	.7	2.2	8.8	9.1	17.9	.4	1.5
50 TO 99 EMPLOYEES	16	1.2	9.9	.9	1.9	7.1	22.7	21.0	43.8	2.0	3.1
100 TO 249 EMPLOYEES	19	2.8	27.0	2.2	5.0	19.3	61.7	47.1	107.4	10.6	10.9
250 TO 499 EMPLOYEES	14	4.6	42.7	3.8	7.5	33.7	116.9	76.0	191.9	22.9	14.8
500 TO 999 EMPLOYEES	6	8.8	87.9	7.3	15.4	72.5	227.7	157.5	385.8	13.8	23.7
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE,	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	16	(Z)	.3	(Z)	.1	.2	1.2	.9	2.2	.1	.2
3297-- NONCLAY REFRACTORIES											
ESTABLISHMENTS, TOTAL,	89	8.1	78.0	6.0	12.7	54.3	190.5	150.2	342.1	9.3	80.9
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E4	15	(Z)	.3	(Z)	(Z)	.2	.3	.8	1.9	.1	.3
5 TO 9 EMPLOYEES E5	8	.1	.5	(Z)	.1	.3	1.4	1.6	2.9	.1	.6
10 TO 19 EMPLOYEES E3	7	.1	.8	.1	.2	.6	3.7	2.9	6.7	.2	1.0
20 TO 49 EMPLOYEES	20	.6	5.3	.5	1.0	3.8	13.5	14.5	28.3	2.2	5.1
50 TO 99 EMPLOYEES	14	1.0	10.3	.8	1.6	6.9	31.2	14.9	47.0	1.9	11.9
100 TO 249 EMPLOYEES	17	3.0	28.5	2.3	4.8	20.2	73.8	57.2	129.6	1.4	32.4
250 TO 499 EMPLOYEES	6	3.2	32.3	2.4	5.0	22.3	66.6	58.4	125.7	3.4	29.5
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	14	.1	.4	(Z)	.1	.3	1.0	.9	1.9	.1	.5
3299-- NONMETALLIC MINERAL PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL, E1	491	6.3	46.0	5.2	9.9	31.9	104.7	58.7	166.5	5.0	16.1
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E9	266	.5	3.2	.4	.7	2.1	7.2	4.4	11.6	.9	1.5
5 TO 9 EMPLOYEES E7	86	.6	3.9	.4	.9	2.5	8.6	5.1	13.6	.6	1.5
10 TO 19 EMPLOYEES E3	58	.8	5.7	.6	1.1	3.7	13.9	7.2	21.0	.7	1.8
20 TO 49 EMPLOYEES	54	1.5	11.5	1.2	2.3	7.4	24.6	12.9	37.3	1.2	3.4
50 TO 99 EMPLOYEES	16	1.2	7.7	1.0	1.9	5.5	11.7	10.4	25.8	.4	3.3
100 TO 249 EMPLOYEES	11	1.8	14.0	1.5	3.0	10.7	38.7	18.8	57.2	1.3	4.6
ESTABS. COVERED BY ADMIN. RECORD ¹ .	269	.8	5.6	.7	1.1	3.5	11.6	7.4	18.9	.4	2.5

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent

E3--30 to 39 percent

E5--50 to 59 percent

E7--70 to 79 percent

E9--90 to 99 percent

E2--20 to 29 percent

E4--40 to 49 percent

E6--60 to 69 percent

E8--80 to 89 percent

E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for the industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3291	ABRASIVE PRODUCTS										
	ENTIRE INDUSTRY	392	24.5	229.4	17.2	33.1	138.1	529.6	361.6	888.1	17.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	380	20.8	193.7	14.9	28.4	119.2	469.3	320.4	788.0	15.8
32911	NONMETALLIC SIZED GRAINS, POWDER, FLOUR ABRASIVES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	24	2.1	21.8	1.5	3.0	13.6	71.5	56.6	127.0	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32912	BONDED ABRASIVE PRODUCTS, INCL. DIAMOND ABRASIVES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	111	12.0	117.4	8.3	15.5	70.1	240.5	129.1	367.8	8.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	100	7.9	72.4	5.7	10.8	46.0	142.8	80.9	223.9	4.0
32913	NONMET. COATED ABRASIVES, POLISHING WHEELS, LAPS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	45	6.9	62.6	4.8	9.7	36.7	133.0	116.3	248.3	3.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	37	3.6	30.8	2.8	5.3	20.1	81.5	81.0	162.5	2.4
32914	METAL ABRASIVES, INCLUDING SCOURING PADS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	30	2.3	18.3	1.7	3.4	12.2	61.3	43.7	105.6	1.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3292	ASBESTOS PRODUCTS										
	ENTIRE INDUSTRY	142	21.0	191.1	16.6	34.4	142.8	426.1	343.5	763.4	20.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	127	17.9	166.5	14.4	29.8	125.1	370.3	299.7	665.7	17.4
32922	ASBESTOS FRICTION MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	23	7.9	69.7	6.3	12.6	52.2	146.3	90.9	241.2	5.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	21	5.9	51.2	4.8	9.6	38.6	108.3	68.4	181.0	4.6
32924	ASBESTOS-CEMENT SHINGLES AND CLAPBOARD (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	7	.6	6.0	.5	1.2	4.7	10.3	10.9	20.7	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32926	VINYL ASBESTOS FLOOR TILE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	18	4.4	40.3	3.4	7.3	30.1	104.4	98.2	199.0	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32927	ASBESTOS AND ASBESTOS-CEMENT PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	55	7.7	71.8	6.1	12.7	53.4	158.0	138.1	289.8	7.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	42	5.4	51.6	4.3	9.0	39.2	110.4	100.9	207.2	5.3
3293	GASKETS, PACKING, SEALING DEVICES										
	ENTIRE INDUSTRY	374	27.7	220.4	21.1	42.7	146.9	428.5	252.6	665.4	24.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	337	23.9	187.7	18.3	36.8	124.9	361.8	219.8	566.7	22.2
32932	GASKETS, ALL TYPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	119	9.5	74.4	7.5	15.0	50.3	130.8	110.5	235.7	7.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	98	8.1	64.7	6.5	13.0	44.2	112.6	95.5	202.5	6.7
32933	PACKING AND SEALING DEVICES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	101	16.1	131.5	12.1	24.9	87.1	265.7	121.0	376.6	15.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	70	12.8	101.1	9.6	19.7	67.6	207.4	90.9	291.0	13.3
3295	MINERALS, GROUND OR TREATED										
	ENTIRE INDUSTRY	492	9.6	88.5	7.7	16.3	65.1	239.0	178.0	414.4	30.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	458	8.6	77.9	6.7	14.7	57.1	213.6	157.3	368.2	18.5
3296	MINERAL WOOL										
	ENTIRE INDUSTRY	108	18.0	172.3	14.7	30.8	135.7	441.5	315.6	755.4	50.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	98	15.6	150.7	12.8	26.7	119.2	396.3	277.1	672.0	45.3
32961	MINERAL WOOL FOR STRUCTURAL INSULATION (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	38	8.2	79.2	6.6	13.8	62.0	238.9	154.6	392.0	32.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	28	4.1	38.3	3.3	7.0	28.6	125.0	82.2	205.9	24.0
32962	MINERAL WOOL FOR INDUS. AND EQUIP. INSULATION (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	42	9.7	91.4	7.0	16.8	72.7	197.7	157.3	354.7	17.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	29	4.0	36.7	3.3	7.0	28.4	82.4	59.1	140.8	7.0
3297	NONCLAY REFRACTORIES										
	ENTIRE INDUSTRY	89	8.1	78.0	6.0	12.7	54.3	190.5	150.2	342.1	9.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	78	6.9	67.3	5.3	11.2	48.2	161.0	132.0	295.0	7.3
3299	NONMETALLIC MINERAL PRODUCTS, NEC										
	ENTIRE INDUSTRY	491	6.3	46.0	5.2	9.9	31.9	104.7	58.7	166.5	5.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	479	5.7	41.9	4.7	8.9	29.1	95.2	52.4	150.5	4.7

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
						Col. B Col. B & C				Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3291	Abrasive products.....1972..	888.1	782.2	60.5	45.4	93	892.3	782.2	110.1	88
	.....1967..	725.3	625.4	59.9	40.0	91	734.2	625.4	108.8	85
3292	Asbestos products ¹.....1972..	763.4	653.9	61.6	47.9	91	742.6	653.9	88.7	88
	.....1967..	575.0	506.6	36.8	31.6	93	564.6	506.6	58.0	90
3293	Gaskets, packing and sealing devices ².....1972..	665.4	576.3	67.8	21.3	89	714.7	576.3	138.4	81
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3295	Minerals, ground or treated.....1972..	414.4	349.8	18.9	45.7	95	391.5	349.8	41.7	89
	.....1967..	280.9	240.9	11.0	29.0	96	270.7	240.9	29.8	89
3296	Mineral wool.....1972..	755.4	686.6	48.7	20.1	93	738.6	686.6	52.0	93
	.....1967..	454.4	404.9	35.2	14.4	92	425.0	404.9	20.1	95
3297	Nonclay refractories.....1972..	342.1	312.7	21.8	7.6	94	372.1	312.7	59.4	84
	.....1967..	307.1	266.4	30.9	9.9	90	302.6	266.4	36.2	88
3299	Nonmetallic mineral products, n.e.c.....1972..	166.5	152.1	9.1	5.3	94	169.7	152.1	17.6	90
	.....1967..	99.9	77.5	16.4	5.9	82	87.5	77.6	9.9	89

(NA) Not available.

¹Data for 1972 and 1967 are not directly comparable because insulation materials containing asbestos, which were previously classified in industry 3293, are included in this industry for 1972.

²Data for 1972 and 1967 are not comparable because of significant shifting of products into and out of this industry.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Abrasive products (SIC 3291)	Asbestos products (SIC 3292)	Gaskets, packing and sealing devices (SIC 3293)	Minerals, ground or treated (SIC 3295)	Mineral wool (SIC 3296)	Nonclay refractories (SIC 3297)	Nonmetallic mineral products, n.e.c. (SIC 3299)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	888.1	763.4	665.4	414.4	755.4	342.1	166.5	(X)
3291- 32911	Abrasive products.....	892.3	782.2	-	-	-	-	-	-	110.1
	Nonmetallic artificial (synthetic) sized grains, and flour abrasives (including graded products only).....	140.3	137.9	-	-	-	-	-	-	2.4
32912	Nonmetallic bonded abrasive products, including diamond abrasives.....	309.3	291.5	-	-	-	-	-	-	17.8
32913	Nonmetallic coated abrasive products and buffing wheels, polishing wheels, and laps.....	293.9	(200-500)	-	-	-	-	-	-	(50-100)
32914	Metal abrasives, including scouring pads.....	107.4	(50-100)	-	-	-	-	-	-	(5-10)
32910	Abrasive products, n.s.k.....	41.3	41.0	-	-	-	-	-	-	.3
3292- 32922	Asbestos products.....	742.6	-	653.9	(10-20)	-	(under 2)	-	-	71.9
	Asbestos friction materials.....	209.5	-	194.1	(under 2)	-	-	-	-	(10-20)
32924	Asbestos-cement shingles and clapboard.....	20.8	-	20.8	-	-	-	-	-	-
32925	Asphalt floor tile.....	9.1	-	7.8	(under 2)	-	-	-	-	.8
32926	Vinyl asbestos floor tile.....	199.3	-	173.7	-	-	-	-	-	25.6
32927	Asbestos textiles, asbestos insulation, and other asbestos and asbestos-cement products.....	298.6	-	252.7	(10-20)	-	(under 2)	-	-	(20-50)
32920	Asbestos products, n.s.k.....	5.3	-	4.8	-	-	-	-	-	.5
3293- 32932	Gaskets, packing and sealing devices.....	714.7	-	25.0	576.3	(under 2)	-	-	-	(100-200)
	Gaskets, all types.....	264.6	-	(5-10)	213.6	-	-	-	-	51.0
32933	Packing and sealing devices.....	403.2	-	(10-20)	316.9	-	-	-	-	68.4
32930	Gaskets, packing and sealing devices, n.s.k.....	46.7	-	-	45.8	(under 2)	-	-	-	(under 2)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Abrasive products (SIC 3291)	Asbestos products (SIC 3292)	Gaskets, packing and sealing devices (SIC 3293)	Minerals, ground or treated (SIC 3295)	Mineral wool (SIC 3296)	Nonclay refractories (SIC 3297)	Nonmetallic mineral products, n.e.c. (SIC 3299)	Other industries
	Shipments and miscellaneous receipts--Continued									
3295-	Minerals, ground or treated.....	391.5	(under 2)	-	-	349.8	-	-	(2-5)	37.9
3296-	Mineral wool.....	738.6	-	-	(under 2)	(under 2)	686.6	-	.8	48.4
32961	Mineral wool for structural insulation.....	364.3	-	-	-	-	361.6	-	-	2.7
32962	Mineral wool for industrial and equipment insulation.....	366.2	-	-	(under 2)	(under 2)	316.9	-	.8	45.7
32960	Mineral wool, n.s.k.....	8.2	-	-	-	-	8.2	-	-	-
3297-	Nonclay refractories.....	372.1	(5-10)	(2-5)	-	(2-5)	-	312.7	-	46.4
3299-	Nonmetallic mineral products, n.e.c.....	169.7	(5-10)	-	-	(under 2)	(under 2)	-	152.1	9.8
	Other product shipments by 4-digit product group:									
1453-	Fire clay.....	(X)	-	-	-	(2-5)	-	-	-	(X)
3482-	Small arms ammunition.....	(X)	-	-	(5-10)	-	-	-	-	(X)
2293-	Paddings and upholstery filling.....	(X)	-	-	-	-	(10-20)	-	-	(X)
2499-	Wood products, n.e.c.....	(X)	-	-	(under 2)	-	(5-10)	-	-	(X)
2641-	Paper coating and glazing.....	(X)	(10-20)	-	-	-	-	-	-	(X)
2661-	Building paper and board mills.....	(X)	-	-	-	-	(2-5)	-	-	(X)
2951-	Paving mixtures and blocks.....	(X)	-	-	-	2.8	-	-	-	(X)
3069-	Fabricated rubber products, n.e.c.....	(X)	-	(2-5)	15.7	-	(under 2)	-	-	(X)
3079-	Miscellaneous plastics products.....	(X)	(2-5)	(10-20)	8.5	-	(2-5)	-	-	(X)
3229-	Pressed and blown glass, n.e.c.....	(X)	-	-	-	-	(10-20)	-	-	(X)
3255-	Clay refractories.....	(X)	-	-	-	-	-	10.3	-	(X)
3274-	Lime.....	(X)	-	-	-	-	-	(5-10)	-	(X)
3313-	Electrometallurgical products.....	(X)	(5-10)	-	-	-	-	-	-	(X)
3399-	Primary metal products, n.e.c.....	(X)	(under 2)	-	-	(2-5)	-	-	-	(X)
3466-	Crowns and closures.....	(X)	-	-	(2-5)	-	-	-	-	(X)
3545-	Machine tool accessories.....	(X)	2.8	-	-	-	-	-	-	(X)
3564-	Blowers and ventilation fans.....	(X)	-	-	-	-	(10-20)	-	-	(X)
3728-	Aircraft equipment, n.e.c.....	(X)	-	-	(2-5)	-	-	-	-	(X)
	Miscellaneous receipts.....	(X)	45.4	47.9	21.3	45.7	20.1	7.6	5.3	(X)
93000	Contract work.....	(X)	3.1	-	1.8	27.1	-	.6	-	(X)
99980	Miscellaneous receipts (repair work, installation, sales of scrap, etc.).....	(X)	1.8	-	3.0	4.9	-	1.0	-	(X)
99989	Resales.....	(X)	40.5	47.9	16.5	13.7	20.1	6.0	5.3	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries					
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued						
3291-	2641 Paper coating and glazing.....	(50-100)	3295-	2819 Industrial inorganic chemicals, n.e.c.....	(2-5)					
	2899 Chemical preparations, n.e.c.....	(2-5)		2891 Adhesives and sealants.....	(2-5)					
	3541 Machine tools, metal cutting types.....	(10-20)		3241 Cement, hydraulic.....	3.7					
	3545 Machine tool accessories.....	3.0		3273 Ready-mixed concrete.....	3.3					
	3559 Special industry machinery, n.e.c.....	(5-10)		3275 Gypsum products.....	10.2					
3292-	2952 Asphalt felts and coatings.....	(20-50)								
	3079 Miscellaneous plastics products.....	11.4	3296-	2661 Building paper and board mills.....	34.1					
	3531 Construction machinery.....	(2-5)		3229 Pressed and blown glass, n.e.c.....	2.1					
	3996 Hard surface floor coverings.....	(20-50)		3255 Clay refractories.....	(5-10)					
3293-				3272 Concrete products, n.e.c.....	(2-5)					
	2272 Tufted carpets and rugs.....	(2-5)								
	2899 Chemical preparations, n.e.c.....	(5-10)	3297-	2899 Chemical preparations, n.e.c.....	(2-5)					
	2952 Asphalt felts and coatings.....	(2-5)		3255 Clay refractories.....	32.9					
	3011 Tires and inner tubes.....	(2-5)		3274 Lime.....	(2-5)					
	3041 Rubber and plastics hose and belting.....	9.2		3624 Carbon and graphite products.....	(2-5)					
	3069 Fabricated rubber products, n.e.c.....	59.3								
	3079 Miscellaneous plastics products.....	7.7	3299-	2851 Paints and allied products.....	(5-10)					
	3493 Steel springs, except wire.....	(2-5)								

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3291- --	ABRASIVE PRODUCTS, TOTAL.....		(X)	892.3	(X)	734.2
32911 --	Nonmetallic Artificial (Synthetic) Sized Grains and Flour Abrasive (Graded Products Only).....		(X)	140.3	(X)	101.5
32911 17	Silicon carbide.....	1,000 s. tons.	(S)	33.7	(X)	(¹)
32911 19	Aluminum oxide.....	..do.	(S)	64.7	155.0	44.4
32911 29	Other artificial sized grains, powders, and flour, including combinations of silicon carbide and aluminum oxide, boron carbide, tungsten carbide, (synthetic diamond, etc.).....		(X)	40.5	(X)	156.1
32911 00	Nonmetallic artificial (synthetic) sized grains, powders, and flour abrasives (graded products only), n.s.k.....		(X)	1.5	(X)	1.0
32912 --	Nonmetallic Bonded Abrasive Products, Including Diamond Abrasives. Artificial and natural bonded abrasives, including grinding wheels, sticks, stones, hones, balls, and bricks, but excluding refractory bricks, floor and stair brick, and similar byproducts:		(X)	309.3	(X)	308.8
32912 31	Vitrified bond.....		(X)	97.4	(X)	238.9
32912 37	Resinoid and shellac bond, reinforced.....		(X)	43.3		
32912 42	Resinoid and shellac bond, nonreinforced.....		(X)	55.9		
32912 44	Rubber bond.....		(X)	13.0		
32912 65	Other bonded abrasives.....		(X)	7.6		
32912 62	Diamond and cubic boron nitride wheels: Metal bond.....	1,000 carats..	3,080.9	21.1	3,165.3	20.9
32912 64	Other bond.....	..do.	5,127.5	24.7	5,741.7	25.6
32912 67	Bonded shaped tumbling media.....		(X)	2.2	(X)	(²)
32912 48	Nonmetallic natural sized grains, powders, and flour.....		(X)	3.0	(X)	2.7
32912 72	Crude lump forms.....		(X)	8.0	(X)	10.3
32912 79	Other artificial and natural nonmetallic abrasives and abrasive products (except coated abrasives), including grinding, lapping, buffing compounds, etc.....					
32912 00	Nonmetallic bonded abrasive products, including diamond abrasives, n.s.k.....					
32913 --	Nonmetallic Coated Abrasive Products and Buffing Wheels, Polishing Wheels, and Laps.....		(X)	293.9	(X)	225.4
	Coated or impregnated with any natural or artificial abrasive materials:					
32913 12	Cloth, glue bond: Belts.....	1,000 reams..	(S)	17.1	271.1	32.9
32913 14	Other shapes.....	..do.	(S)	29.3	260.0	17.9
32913 16	Cloth, resin and waterproof bond: Belts.....	..do.	(S)	77.4	358.8	44.6
32912 18	Other shapes.....	..do.	192.3	21.6	177.2	18.2
32913 22	Paper, glue bond: Belts.....	..do.	170.7	6.6	437.3	6.4
32913 24	Other shapes.....	..do.	367.4	9.5	758.6	19.4
32913 26	Paper, resin and waterproof bond: Belts.....	..do.	108.8	7.8	43.5	1.9
32913 28	Other shapes.....	..do.	(S)	6.0	363.4	12.3
	Other, including paper-cloth combination, vulcanized fiber- cloth combination, vulcanized fibers, etc.:					
32913 35	Glue bond.....	..do.	(S)	3.4	36.6	5.3
32913 37	Resin and waterproof bond.....	..do.	(S)	82.3	129.4	34.4
32913 71	Buffing and polishing wheels and laps made of cloth, leather, felt, and other materials (containing no abrasive grains, powders, or flour).....		(X)	26.3	(X)	23.6
32913 00	Nonmetallic coated abrasive products and buffing wheels, polishing wheels, and laps, n.s.k.....		(X)	6.5	(X)	8.4
32914 --	Metal Abrasives, Including Scouring Pads.....		(X)	107.4	(X)	75.0
32914 11	Steel and iron grit, shot, and sand.....	1,000 s. tons.	274.2	41.1	244.4	31.2
32914 31	Steel wool.....	..do.	(S)	6.8	(S)	7.2
32914 53	Metal pads with soap or other cleaner impregnated or in package.	1,000 gross..	(S)	51.6	6,651.3	31.3
32914 98	Other metal abrasives and scouring pads.....					
32914 00	Metal abrasives, including scouring pads, n.s.k.....					
32910 00	Abrasive products, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	27.4	(X)	17.6
32910 02	Abrasive products, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	13.9	(X)	5.9

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3292- --	ASBESTOS PRODUCTS, TOTAL.....		(X)	(X)	742.6	(X)	(X)	590.7
32922 --	Asbestos Friction Materials.....		(X)	(X)	209.5	(X)	(X)	144.4
32922 11	Brake linings:							
	Woven, containing asbestos yarn, tape, or cloth.....	1,000 lin. ft.	(X)	(S)	10.2	(X)	(S)	13.5
32922 15	Molded, including all nonwoven types.....	1,000 cu. ft.	(X)	(S)	113.1	(X)	(S)	95.6
32922 21	Disc brake pads.....	Mil.pieces	(X)	(S)	14.2	(X)	(NA)	(NA)
	Clutch facing:							
32922 51	Woven, containing asbestos yarn, tape, or cloth.....	...do....	(X)	18.1	19.9	(X)	23.5	17.2
32922 55	Molded, including all nonwoven types.....	...do....	(X)	(S)	48.5	(X)	(S)	16.1
32922 00	Asbestos friction materials, n.s.k.....	...do....	(X)	(X)	3.6	(X)	(X)	2.0
32924 --	Asbestos-Cement Shingles and Clapboard.....		(X)	1.3	20.8	(X)	1.9	24.0
32924 11	Siding shingles and clapboard, including accessories.....	Mil. sq.	(X)	1.3	20.8	(X)	1.9	24.0
32924 51	Roofing shingles.....	...do....						
32924 00	Asbestos-cement shingles and clapboard, n.s.k.....	...do....	-	-	-			
32925 11	Asphalt Floor Tile.....	Mil.sq. yd.	(S)	9.8	9.1	(S)	28.0	25.0
32926 --	Vinyl Asbestos Floor Tile.....	...do....	(NA)	(NA)	199.3	142.7	143.5	153.5
32926 13	Plain backed.....	...do....	129.3	129.4	151.3			
32926 15	Adhesive backed.....	...do....	(S)	(S)	48.0	142.7	143.5	153.5
32926 00	Vinyl asbestos floor tile, n.s.k.....	...do....	-	-	-			
32927 --	Asbestos Textiles, Asbestos Insulation, and Other Asbestos and Asbestos-Cement Products ³		(X)	(X)	298.6	(X)	(X)	240.2
	Asbestos textiles:							
32927 11	Yarn, cord, and thread.....	Mil. lb...	(S)	17.5	13.7	(S)	9.4	7.1
32927 21	Cloth.....	...do....	(S)	11.1	15.1	11.5	10.2	12.3
32927 31	Other asbestos textiles, including roving, lap, wick, rope, tape, corded fibers, etc.....	...do....	(S)	(S)	8.4	(S)	(S)	11.5
	Insulation:							
32927 35	Pipe insulation.....	1,000 lin. ft.	(X)	(S)	20.7	(X)	(S)	17.3
32927 37	Other asbestos insulation, including block insulation.....	1,000 bd. ft.	(X)	(S)	12.8	(X)	(NA)	8.8
	Asbestos-cement products:							
32927 41	Flat sheets and wallboard, all thicknesses converted to 1/4 in. basis.....	1,000 sq. ft.	(X)	(S)	20.7	(X)	(S)	15.2
32927 51	Corrugated sheets.....	...do....	(X)	(S)	(⁴)	(X)	(S)	3.5
32927 73	Pipe, conduit, and ducts.....	1,000 s. tons.	(X)	870.1	143.3	(X)	840.1	118.6
32927 75	Pressure pipe.....	...do....						
	Asbestos felts:							
32927 81	Roofing, asphalt or tar saturated.....	...do....	(X)	(S)	23.2	(X)	(S)	11.2
32927 85	Other.....	...do....	(X)	(S)	13.3	(X)	(S)	17.2
32927 98	Other asbestos and asbestos-cement products, including millboard and prefabricated housing components.....		(X)	(X)	⁴ 23.7	(X)	(X)	14.1
32927 00	Asbestos textiles and other asbestos and asbestos-cement products, n.s.k.....		(X)	(X)	3.7	(X)	(X)	3.5
32920 00	Asbestos products, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	(X)	2.7	(X)	(X)	3.1
32920 02	Asbestos products, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	(X)	2.6	(X)	(X)	.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3293- --	GASKETS, PACKING AND SEALING DEVICES, TOTAL.....		(X)	714.7	(X)	(NA)
32932 --	Gaskets, All Types.....		(X)	264.6	(X)	248.7
	Gaskets and gasketing:					
32932 13	Asbestos, compressed (all types of binders).....		(X)	24.5	}	(X)
32932 15	Asbestos, beater saturated (all types of binders).....		(X)	19.2		
32932 17	Asbestos gasketing cloth, rubberized or fluorocarbon impregnated.....		(X)	2.4		
32932 21	Cork and cork-rubber.....		(X)	23.6	(X)	14.0
32932 31	Rubber (elastomeric).....		(X)	85.7	(X)	89.6
32932 43	Paper, felt base, and vegetable fiber (organic fiber).....		(X)	19.2	(X)	19.4
32932 51	Metallic.....		(X)	54.7	(X)	21.8
32932 45	Fluorocarbon gaskets and sheet, including envelope types.....		(X)	.7	}	(X)
32932 98	Other nonmetallic gaskets.....		(X)	26.0		
32932 00	Gaskets, all types, n.s.k.....		(X)	8.5	(X)	9.0
32933 --	Packing and Sealing Devices ⁵		(X)	403.2	(X)	(NA)
	Packings and seals, rubber:					
32933 21	Radial lip type seals (oil seals).....		(X)	124.7	(X)	60.4
32933 27	O-rings (including O-rings used as drive belts).....		(X)	54.8	(X)	55.4
32933 31	Lip seals, single and multiple units.....	Million lb...	(X)	18.4	}	(S)
32933 33	Squeeze type seals.....	..do.....	(X)	(⁶)		
32933 35	Diaphragm seals, all types.....	..do.....	(X)	⁶ 16.7		
32933 39	All other molded packings and seals.....	..do.....	(X)	⁶ 49.7		
32933 40	Plastics packing and seals, including O-rings.....	..do.....	(X)	21.2	(NA)	(NA)
32933 51	Leather packing, oil and grease retainers, including seals.....		(X)	5.8	(X)	(S)
	Packing (except leather, rubber, and metal):					
32933 61	Compression packings for sealing moving and nonmoving parts...		(X)	22.1	}	(X)
32933 69	All other packings and seals.....		(X)	22.3		
32933 71	Axial mechanical seals.....		(X)	67.5		10.2
32933 00	Packing and asbestos insulation, n.s.k.....			(X)	6.9	
32930 00	Gaskets and insulation, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	33.0	(X)	24.0
32930 02	Gaskets and insulation, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	13.7	(X)	4.6
3295- --	MINERALS, GROUND OR TREATED, TOTAL.....		(X)	391.5	(X)	270.7
32950 11	Lightweight aggregate (such as diatomaceous earth, expanded clay, expanded slag, cinders, perlite, haydite, pumice, but excluding vermiculite).....	1,000 s. tons.	(S)	39.6	(S)	24.2
	Exfoliated vermiculite:					
32950 13	Aggregate.....	Million cu.ft.	(D)	(D)	(D)	(D)
32950 15	Other (such as loose fill insulation, acoustical, etc.).....	..do.....	(D)	(D)	(D)	(D)
32950 20	Dead-burned magnesia or magnesite.....		(S)	27.6	(X)	28.2
32950 31	Crushed slag.....	1,000 s. tons.	22,216.0	48.1	21,334.4	38.0
32950 61	Crushed and ground uncalcined gypsum, including gypsite and anhydrite.....	..do.....	1,535.9	12.5	1,108.6	8.7
32950 81	Natural graphite, ground, refined, or blended.....	..do.....	41.2	9.5	35.4	5.9
32950 84	Ground crude fire clay, high alumina clay, and silica fire clay...	..do.....	(S)	26.6	102.8	2.7
32950 87	Ground barite.....	..do.....	(D)	(D)	(D)	(D)
32950 93	Talc, soapstone, and pyrophyllite, ground or otherwise treated....		(S)	8.7	}	(X)
32950 98	Other minerals and earths, ground or otherwise treated, including feldspar, roofing granules, other beneficiated clays and shales, mica.....		(X)	104.1		
32950 00	Minerals ground or treated, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	49.1	(X)	44.4
32950 02	Minerals ground or treated, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	15.7	(X)	5.9
3296- --	MINERAL WOOL, TOTAL.....		(X)	738.6	(X)	425.0
32961 --	Mineral Wool for Structural Insulation.....		(X)	364.3	(X)	119.8
32961 11	Loose fiber (blowing and pouring), shipped as such, and granulated fiber.....	1,000 s. tons.	331.3	37.2	261.9	19.2
	Building batts, blankets and rolls (in thermal resistance, R, values):					
32961 31	R-19.0 or over.....	Million sq.ft.	687.0	47.4	}	2,272.2
32961 35	R-11.0 to R-18.9.....	..do.....	3,146.4	134.4		
32961 38	R-7.0 to R-10.9.....	..do.....	2,260.4	77.4		
32961 51	Board (such as roof insulation).....	Million bd.ft.	(D)	(D)	(S)	(Z)
32961 98	Other mineral wool for structural insulation, including air ducts.....		(X)	(D)	(X)	13.5
32961 00	Mineral wool for structural insulation, n.s.k.....		(X)	1.8	(X)	.7

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3296- --	MINERAL WOOL--Continued					
32962 --	Mineral Wool for Industrial and Equipment Insulation.....		(X)	366.2	(X)	292.4
	Blankets (flexible), including fabricated pieces, rolls, and batts:					
32962 31	Plain.....	Million bd.ft.	(S)	60.1	(S)	77.3
32962 34	Coated.....	do.....	(S)	15.6	(S)	3.0
32962 36	Faced and metal meshed.....	do.....	(S)	19.8	(S)	29.3
32962 45	Molded insulation (such as special automotive, appliance, and aerospace items).....	Million lb....	(S)	17.7	49.4	3.8
32962 51	Blocks and boards.....	Million bd.ft.	401.0	38.0	1,420.3	71.1
32962 61	Pipe insulation.....	Mil. lin. ft..	87.5	38.5	111.5	34.1
32962 71	Acoustical pads and boards, including ceiling tile.....	Million sq.ft.	1,098.3	147.3	148.6	32.7
32962 82	High temperature insulation fibers, including silica fiber and alumina-silica fiber.....	Million lb....	(D)	(D)	(S)	(S)
32962 98	Other mineral fiber for industrial, equipment, and appliance insulation, such as loose fiber (shipped as such), granulated fiber felts, insulating and finishing cements, air ducts, etc.		(X)	20.5	(X)	28.7
32962 00	Mineral wool for industrial and equipment insulation, n.s.k....		(X)	(D)	(X)	12.4
32960 00	Mineral wool, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	6.0	(X)	12.1
32960 02	Mineral wool, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	2.2	(X)	.8
3297- --	NONCLAY REFRACTORIES, TOTAL:					
	As reported in the census of manufactures.....		(X)	372.1	(X)	302.6
	As reported on Census Quarterly Form MA-32C.....		(X)	363.1	(X)	298.6
	Brick and shapes:					
32970 12	Silica brick and shapes.....	Mil. 9" equiv.	32.4	12.9	71.0	14.7
32970 15	Magnesite and magnesite-chrome brick and shapes (magnesite predominating) (excluding molten cast and fused magnesia) ^{7 8} ..	do.....	87.7	107.6	93.8	89.9
32970 21	Chrome and chrome-magnesite brick and shapes (chrome predominating) (excluding molten cast) ^{7 8}	do.....	18.7	20.0	22.2	18.9
32970 33	Graphite crucibles, retorts, stopper heads, and other shaped refractories containing natural graphite.....	1,000 s. tons.	15.8	15.8	16.6	13.7
32970 52	Mullite brick and shapes made predominantly of kyanite, silli- manite, andalusite or synthetic mullite (excluding molten cast) ^{7 8}	Mil. 9" equiv.	4.5	8.9	2.8	8.8
32970 53	Extra-high alumina brick and shapes made predominantly of fused bauxite, fused or dense-sintered alumina (excluding molten cast) ^{7 8 9}	do.....	2.5	8.6	2.9	7.4
32970 48	Silicon carbide kiln furniture (made predominantly of silicon carbide).....	do.....	1.3	5.0	1.2	4.1
32970 49	Silicon carbide brick and shapes (made predominantly of silicon carbide) except kiln furniture.....	do.....	2.0	8.3	2.8	8.8
32970 55	Zircon and zirconia brick and shapes (made predominantly of either of these materials).....	do.....	1.8	6.6	1.5	5.4
32970 56	Forsterite, pyrophyllite, molten-cast dolomite, dolomite- magnesite and other nonclay brick and shapes ⁸	do.....				
32970 35	Carbon refractories (brick, blocks, and shapes, excluding those containing natural graphite) ¹⁰	do.....	33.9	64.0	25.7	41.7
	Mortars:					
32970 61	Basic bonding mortars (magnesite or chrome ore as principal component).....	1,000 s. tons.	11.5	1.4	79.9	6.6
32970 63	Other nonclay refractory mortars.....	do.....	29.9	6.0	31.6	5.5
32970 91	Nonclay refractory castables (hydraulic setting) and portland or calcium aluminate cements.....	do.....	49.3	12.8	31.5	6.9
	Plastic refractories and ramming mixes, wet and dry types:					
32970 65	Basic magnesite, dolomite, or chrome ore predominating.....	do.....	129.2	18.4	154.6	17.5
32970 67	Other nonclay plastic refractories and ramming mixes.....	do.....	80.9	19.4	57.6	12.6
32970 92	Nonclay gunning mixes.....	do.....	303.1	35.8	257.2	22.2
32970 94	Other nonclay refractory materials sold in lump or ground form ¹¹ .	do.....	342.6	11.6	127.3	13.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3299- --	NONMETALLIC MINERAL PRODUCTS, N.E.C., TOTAL.....		(X)	169.7	(X)	87.5
	Sheet mica products:					
32990 53	Built-up sheet mica products.....		(X)	18.5	(X)	23.0
32990 55	Other sheet mica products.....		(X)	24.1	(X)	19.2
32990 61	Sand-lime brick, block, and tile (2-1/4" x 3-5/8" x 7-5/8" equivalent).....	Million bricks.	237.0	8.0	66.7	2.9
32990 81	Statuary and art goods (factory production).....		(X)	17.5	(X)	12.8
32990 98	Other nonmetallic mineral products, including magnesite floor composition, stucco, sapphire boule, etc.....		(X)	59.6	(X)	(S)
32990 00	Nonmetallic mineral products, n.e.c., n.s.k., for companies with 10 employees or more. (See note.).....		(X)	23.3	(X)	6.9
32990 02	Nonmetallic mineral products, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....		(X)	18.8	(X)	7.0

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review. (Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

¹In 1967, code 32911 17 combined with 32911 29.

²In 1967, code 32912 67 combined with codes 32912 31, 32912 37, 32912 42, 32912 44, and 32912 65.

³Insulation materials containing asbestos, which were previously classified in product class 32933, are now included in this product class for 1972. This shift into product class 32927 represents approximately 4 percent of the total 1967 shipments at the U.S. level.

⁴Product code 32927 51 combined with 32927 98 for 1972.

⁵Molded packings and seals, except plastics (formerly classified in product class 30695), axial mechanical face seals (formerly classified in product class 35992), plastics packing and seals (formerly classified in product class 30795), and leather packings, oil and grease retainers, including seals (formerly classified in product class 31210), are included in this product class for 1972. This shift of products represents more than 15 percent of the total shipments value at the U.S. level.

⁶Included in figure for code 32933 39.

⁷Molten cast brick and shapes are included with "Forsterite, pyrophyllite, molten-cast dolomite, dolomite-magnesite, and other nonclay brick and shapes."

⁸Molten cast refractories are made by fusing refractory oxides as in an electric furnace, and pouring the molten material into molds to form finished shapes.

⁹"Fused" as applied to bauxite and alumina means complete melting, as in an electric furnace; after cooling, the product is crushed and graded for use in the refractory. Dense-sintered alumina refers to heat treatment (short of melting) to render it relatively volume-stable for use in a refractory.

¹⁰Data for carbon refractories are combined with "Forsterite, pyrophyllite, molten-cast dolomite, dolomite-magnesite, and other nonclay brick and shapes" to avoid disclosing figures of individual companies.

¹¹Includes shipments for direct use as finished refractory products by establishments classified in manufacturing industries, and excludes shipments to refractory producers for reprocessing in the manufacture of brick and other refractories.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
NONMETALLIC ARTIFICIAL (SYNTHETIC) SIZED GRAINS, AND FLOUR ABRASIVES (INCLUDING GRADED PRODUCTS ONLY)(32911)			NONMETALLIC COATED ABRASIVE PRODUCTS AND BUFFING WHEELS, POLISHING WHEELS AND LAPS (32913)-- Continued		
United States.....	140.3	101.4	North Central Region.....	GG	119.6
Northeast Region.....	91.7	70.2	East North Central Division.....	GG	GG
New England Division.....	39.5	22.1	Ohio.....	EE	11.8
Massachusetts.....	FF	FF	Illinois.....	3.7	CC
Middle Atlantic Division.....	52.2	48.1	Michigan.....	CC	10.2
New York.....	46.8	45.7	Wisconsin.....	FF	FF
Pennsylvania.....	CC	2.5	West North Central Division.....	GG	GG
North Central Region.....	41.6	FF	Minnesota.....	GG	GG
East North Central Division.....	FF	FF	Iowa.....	AA	(NA)
Ohio.....	AA	(NA)	South Region.....	11.6	CC
Indiana.....	AA	(NA)	South Atlantic Division.....	CC	BB
Illinois.....	AA	(NA)	North Carolina.....	CC	BB
Michigan.....	AA	FF	South Carolina.....	AA	(NA)
Wisconsin.....	BB	(NA)	East South Central Division.....	BB	AA
West North Central Division.....	AA	(NA)	Mississippi.....	BB	AA
Kansas.....	AA	(NA)	West Region.....	CC	BB
South Region.....	BB	(NA)	Pacific Division.....	CC	BB
East South Central Division.....	BB	(NA)	California.....	CC	BB
Tennessee.....	BB	(NA)			
West Region.....	BB	BB	METAL ABRASIVES, INCLUDING SCOURING PADS (32914)		
Pacific Division.....	BB	BB	United States.....	107.4	75.0
Washington.....	BB	BB	Northeast Region.....	FF	FF
			New England Division.....	BB	AA
NONMETALLIC BONDED ABRASIVE PRODUCTS, INCLUDING DIAMOND ABRASIVES (32912)			Massachusetts.....	BB	(NA)
United States.....	309.3	308.8	Middle Atlantic Division.....	18.9	25.5
Northeast Region.....	201.5	204.5	New York.....	CC	17.9
New England Division.....	126.7	121.3	Pennsylvania.....	12.8	6.4
New Hampshire.....	AA	AA	North Central Region.....	80.8	FF
Massachusetts.....	GG	105.8	East North Central Division.....	80.8	FF
Rhode Island.....	AA	AA	Ohio.....	26.3	12.4
Connecticut.....	12.2	EE	Indiana.....	CC	CC
Middle Atlantic Division.....	74.9	83.1	Illinois.....	FF	FF
New York.....	39.8	38.7	Michigan.....	13.5	BB
New Jersey.....	9.9	12.0	South Region.....	BB	(NA)
Pennsylvania.....	25.2	32.4	East South Central Division.....	BB	(NA)
North Central Region.....	88.0	90.3	Alabama.....	BB	(NA)
East North Central Division.....	86.2	GG			
Ohio.....	34.4	30.9	ASBESTOS FRICTION MATERIALS (32922)		
Indiana.....	BB	CC	United States.....	209.5	144.4
Illinois.....	28.6	24.1	Northeast Region.....	114.9	GG
Michigan.....	28.6	24.1	New England Division.....	FF	FF
West North Central Division.....	1.8	AA	Massachusetts.....	AA	BB
South Region.....	5.5	3.9	Connecticut.....	FF	FF
East South Central Division.....	4.0	BB	Middle Atlantic Division.....	GG	54.2
Tennessee.....	AA	(NA)	New York.....	FF	FF
Alabama.....	BB	AA	New Jersey.....	EE	EE
West South Central Division.....	AA	AA	Pennsylvania.....	FF	FF
Texas.....	AA	(NA)			
West Region.....	14.3	10.1	North Central Region.....	FF	32.7
Pacific Division.....	14.3	10.1	East North Central Division.....	FF	32.7
Washington.....	BB	BB	Ohio.....	EE	CC
California.....	EE	CC	Indiana.....	20.0	12.0
			Illinois.....	EE	EE
NONMETALLIC COATED ABRASIVE PRODUCTS AND BUFFING WHEELS, POLISHING WHEELS AND LAPS (32913)			South Region.....	48.1	EE
United States.....	293.9	225.4	South Atlantic Division.....	FF	FF
Northeast Region.....	105.4	95.9	Virginia.....	EE	EE
New England Division.....	10.1	13.5	North Carolina.....	CC	BB
Massachusetts.....	10.1	EE	East South Central Division.....	FF	(NA)
Middle Atlantic Division.....	94.3	82.4	Kentucky.....	CC	(NA)
New York.....	GG	GG	Tennessee.....	EE	(NA)
New Jersey.....	BB	AA	West Region.....	AA	4.7
Pennsylvania.....	BB	AA	Pacific Division.....	AA	4.7
			California.....	AA	4.7

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ASBESTOS-CEMENT SHINGLES AND CLAPBOARD (32924)			ASBESTOS TEXTILES, ASBESTOS INSULATION, AND OTHER ASBESTOS AND ASBESTOS-CEMENT PRODUCTS (32927)-- Continued		
United States.....	20.8	24.0			
Northeast Region.....	10.8	13.2	North Central Region.....	76.7	(NA)
Middle Atlantic Division.....	10.8	EE	East North Central Division.....	GG	(NA)
New Jersey.....	CC	9.9	Ohio.....	31.4	(NA)
Pennsylvania.....	BB	BB	Illinois.....	34.0	(NA)
North Central Region.....	BB	BB	Wisconsin.....	AA	(NA)
East North Central Division.....	BB	BB	West North Central Division.....	CC	(NA)
Indiana.....	BB	AA	Missouri.....	CC	(NA)
West North Central Division.....	AA	BB			
Missouri.....	AA	BB	South Region.....	GG	(NA)
South Region.....	6.1	5.6	South Atlantic Division.....	28.8	(NA)
East South Central Division.....	AA	AA	North Carolina.....	CC	(NA)
Alabama.....	AA	AA	South Carolina.....	CC	(NA)
West South Central Division.....	BB	BB	Georgia.....	BB	(NA)
Louisiana.....	BB	BB	Florida.....	CC	(NA)
			East South Central Division.....	CC	(NA)
			Alabama.....	CC	(NA)
			West South Central Division.....	33.0	(NA)
			Arkansas.....	BB	(NA)
			Louisiana.....	CC	(NA)
			Texas.....	FF	(NA)
			West Region.....	GG	(NA)
			Pacific Division.....	GG	(NA)
			Washington.....	AA	(NA)
			California.....	GG	(NA)
ASPHALT FLOOR TILE (32925)			GASKETS, ALL TYPES (32932)		
United States.....	9.1	25.0	United States.....	264.6	248.7
Northeast Region.....	4.5	(NA)	Northeast Region.....	60.8	65.7
Middle Atlantic Division.....	4.5	(NA)	New England Division.....	21.8	21.0
New York.....	BB	(NA)	Massachusetts.....	10.9	12.8
Pennsylvania.....	AA	(NA)	Connecticut.....	EE	8.2
North Central Region.....	AA	(NA)	Middle Atlantic Division.....	39.0	44.7
East North Central Division.....	AA	(NA)	New York.....	13.8	14.7
Illinois.....	AA	(NA)	New Jersey.....	14.3	17.2
West Region.....	2.2	(NA)	Pennsylvania.....	10.9	12.8
Pacific Division.....	2.2	(NA)			
California.....	2.2	(NA)	North Central Region.....	136.5	122.7
VINYL ASBESTOS FLOOR TILE (32926)			East North Central Division.....	128.0	117.7
United States.....	199.3	153.5	Ohio.....	17.0	17.8
Northeast Region.....	61.8	(NA)	Indiana.....	CC	10.7
New England Division.....	AA	(NA)	Illinois.....	60.9	57.6
Rhode Island.....	AA	(NA)	Michigan.....	30.1	24.2
Middle Atlantic Division.....	GG	(NA)	Wisconsin.....	EE	7.4
New York.....	FF	(NA)	West North Central Division.....	8.5	5.1
New Jersey.....	22.8	(NA)	Iowa.....	AA	(NA)
Pennsylvania.....	EE	(NA)	Missouri.....	2.6	2.4
North Central Region.....	63.9	(NA)	Kansas.....	BB	(NA)
East North Central Division.....	63.9	(NA)			
Ohio.....	CC	(NA)	South Region.....	54.6	37.6
Illinois.....	GG	(NA)	South Atlantic Division.....	22.5	EE
South Region.....	42.6	(NA)	Virginia.....	CC	9.5
East South Central Division.....	CC	(NA)	West Virginia.....	BB	AA
Mississippi.....	CC	(NA)	North Carolina.....	8.9	BB
West South Central Division.....	FF	(NA)	East South Central Division.....	13.1	CC
Arkansas.....	AA	(NA)	Tennessee.....	CC	CC
Louisiana.....	CC	(NA)	Alabama.....	4.7	BB
Texas.....	FF	(NA)	West South Central Division.....	19.0	13.3
			Oklahoma.....	BB	2.1
			Texas.....	15.6	11.1
			West Region.....	12.7	22.6
			Pacific Division.....	EE	FF
			California.....	EE	22.6
ASBESTOS TEXTILES, ASBESTOS INSULATION, AND OTHER ASBESTOS AND ASBESTOS-CEMENT PRODUCTS (32927) ¹			PACKING AND SEALING DEVICES (32933) ²		
United States.....	298.6	(NA)	United States.....	403.2	63.1
Northeast Region.....	91.3	(NA)	Northeast Region.....	108.7	39.1
New England Division.....	16.6	(NA)	New England Division.....	41.3	6.9
New Hampshire.....	CC	(NA)	New Hampshire.....	EE	(NA)
Massachusetts.....	EE	(NA)	Massachusetts.....	16.5	BB
Middle Atlantic Division.....	74.6	(NA)	Connecticut.....	CC	BB
New York.....	6.2	(NA)	Middle Atlantic Division.....	67.4	32.1
New Jersey.....	47.8	(NA)	New York.....	17.4	CC
Pennsylvania.....	20.6	(NA)	New Jersey.....	29.6	EE
			Pennsylvania.....	20.4	9.5

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PACKING AND SEALING DEVICES (32933)--Continued			MINERAL WOOL FOR STRUCTURAL INSULATION (32961)--Continued		
North Central Region.....	186.2	9.7	South Region.....	86.3	26.0
East North Central Division.....	GG	CC	South Atlantic Division.....	37.1	CC
Ohio.....	30.5	BB	West Virginia.....	BB	CC
Indiana.....	31.1	(NA)	Georgia.....	FF	(NA)
Illinois.....	103.1	BB	East South Central Division.....	CC	(NA)
Michigan.....	15.1	AA	Alabama.....	CC	5.5
West North Central Division.....	CC	(NA)	West South Central Division.....	FF	14.0
Minnesota.....	BB	(NA)	Texas.....	FF	EE
South Region.....	71.7	9.0	West Region.....	48.2	16.6
South Atlantic Division.....	20.5	BB	Mountain Division.....	CC	BB
Delaware.....	AA	(NA)	Colorado.....	CC	BB
Maryland.....	BB	(NA)	Pacific Division.....	FF	EE
Virginia.....	AA	(NA)	Washington.....	BB	(NA)
North Carolina.....	CC	(NA)	California.....	FF	EE
South Carolina.....	BB	AA	MINERAL WOOL FOR INDUSTRIAL AND EQUIPMENT INSULATION (32962)		
Georgia.....	AA	(NA)	United States.....	366.2	292.5
Florida.....	BB	(NA)	Northeast Region.....	59.4	55.2
East South Central Division.....	FF	(NA)	Middle Atlantic Division.....	GG	GG
Kentucky.....	FF	(NA)	New York.....	BB	BB
Tennessee.....	EE	(NA)	New Jersey.....	20.3	31.6
Alabama.....	BB	(NA)	Pennsylvania.....	FF	18.2
West South Central Division.....	EE	6.3	North Central Region.....	213.5	170.0
Texas.....	EE	6.3	East North Central Division.....	144.9	123.4
West Region.....	36.6	5.4	Ohio.....	GG	GG
Mountain Division.....	9.9	(NA)	Indiana.....	48.7	33.5
Colorado.....	CC	(NA)	Illinois.....	BB	CC
Utah.....	BB	(NA)	Michigan.....	CC	AA
Pacific Division.....	26.7	CC	Wisconsin.....	BB	AA
California.....	FF	CC	West North Central Division.....	65.0	46.6
MINERAL WOOL FOR STRUCTURAL INSULATION (32961)			Minnesota.....	EE	(NA)
United States.....	364.3	119.8	Missouri.....	CC	CC
Northeast Region.....	84.9	26.5	Kansas.....	FF	FF
Middle Atlantic Division.....	GG	FF	South Region.....	73.2	41.0
New Jersey.....	GG	FF	South Atlantic Division.....	46.0	FF
Pennsylvania.....	EE	(NA)	West Virginia.....	CC	BB
North Central Region.....	144.8	50.6	Georgia.....	EE	8.5
East North Central Division.....	GG	FF	Florida.....	FF	FF
Ohio.....	GG	29.3	East South Central Division.....	EE	AA
Indiana.....	CC	BB	Kentucky.....	AA	AA
Illinois.....	AA	AA	Alabama.....	CC	(NA)
West North Central Division.....	GG	EE	Mississippi.....	CC	(NA)
Minnesota.....	4.2	AA	West South Central Division.....	CC	BB
Kansas.....	GG	EE	Texas.....	CC	BB
			West Region.....	20.1	26.2
			Pacific Division.....	20.1	26.2
			California.....	EE	FF

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available.

¹Insulation materials containing asbestos, which were previously classified in product class 32933, are now included in this product class. Products shifting into this class of products represent approximately 4 percent of the total 1967 shipments at the U.S. level.

²Molded packings and seals, except plastics (formerly classified in product class 30695), axial mechanical face seals (formerly classified in product class 35992), plastics packing and seals (formerly classified in product class 30795), and leather packings, oil and grease retainers, including seals (formerly classified in product class 31210), are included in this product class. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3291	Abrasive products, value.....mil. dol..	892.3	768.3	781.7	881.0	813.7	734.2	572.2	399.8
32911	Nonmetallic sized grains, powder, and flour abrasives.....do....	140.3	92.1	120.6	129.1	106.3	101.5	² 74.3	38.2
32912	Nonmetallic bonded abrasive products, including diamond abrasives.....do....	309.3	283.9	294.5	326.3	306.1	308.8	247.3	164.4
32913	Nonmetallic coated abrasive, polishing wheels, and laps.....do....	293.9	277.7	258.7	318.9	299.1	225.4	176.3	127.4 ⁶
32914	Metal abrasive, including scouring pads.....do....	107.4	96.1	89.3	84.0	78.8	75.0	63.2	54.7
32910	Abrasive products, n.s.k.....do....	41.3	18.5	(18.6)	22.7	23.4	23.5	11.1	15.5
3292	Asbestos products:								
	Value.....do....	742.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
32922	Asbestos friction materials, value.....do....	209.5	167.5	151.7	193.2	172.1	144.4	117.7	89.8
32924	Asbestos-cement shingles and clapboard:								
	Quantity.....mil. squares..	(NA)	(NA)	(NA)	(NA)	(NA)	1.9	3.1	4.4
	Value.....mil. dol..	20.8	23.5	23.1	23.3	25.7	24.0	34.7	49.2
32925	Asphalt floor tile:								
	Quantity.....mil. sq. yd..	9.8	(NA)	(NA)	(NA)	(NA)	28.0	74.3	109.5
	Value.....mil. dol..	9.1	10.9	13.1	18.1	21.0	25.0	59.2	77.3
32926	Vinyl asbestos floor tile:								
	Quantity.....mil. sq. yd..	(NA)	(NA)	(NA)	(NA)	(NA)	143.5	106.7	57.7
	Value.....mil. dol..	199.3	183.6	158.0	160.7	154.3	153.5	131.1	66.6
32927	Asbestos textiles, asbestos insulation and other asbestos and asbestos-cement products, value ³.....do....	298.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
32920	Asbestos products, n.s.k., value.....do....	5.3	5.7	(5.8)	3.8	(3.2)	3.6	1.1	5.0
3293	Gaskets, packing and sealing devices, value.....do....	714.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
32932	Gaskets, all types.....do....	264.6	271.9	257.4	290.1	272.5	248.7	199.7	143.3
32933	Packing and sealing devices ⁴.....do....	403.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
32930	Gaskets and insulation, n.s.k.....do....	46.7	32.9	(29.1)	19.1	18.0	28.6	11.3	8.5
32950	Minerals, ground or treated, value.....do....	391.5	460.5	438.1	400.5	302.2	270.7	203.1	218.1
3296	Mineral wool.....do....	738.6	605.5	533.3	504.2	461.4	425.0	356.0	236.4
32961	Mineral wool for structural insulation.....do....	364.3	259.4	205.7	176.1	156.5	119.8	107.7	71.8
32962	Mineral wool for industrial and equipment insulation.....do....	366.2	336.3	319.3	320.2	296.2	292.4	240.8	142.0
32960	Mineral wool, n.s.k.....do....	8.2	9.8	(8.3)	7.9	8.7	12.9	7.5	22.6
32970	Nonclay refractories, value.....do....	372.1	331.5	351.9	352.9	312.0	302.6	256.8	185.2
32990	Nonmetallic mineral products, n.e.c., value.....do....	169.7	108.7	91.2	113.4	103.5	87.5	883.0	(53.7)

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Not directly comparable with 1958. In 1958, synthetic diamonds were classified in industry 3913, Lapidary Work. The amount is withheld to avoid disclosing figures for individual companies.

³Insulation materials containing asbestos, which were previously classified in product class 32933, are included in this product class for 1972. This shift into product class 32927 represents approximately 4 percent of the total 1967 shipments at the U.S. level.

⁴Molded packings and seals, except plastics (formerly classified in product class 30695), axial mechanical face seals (formerly classified in product class 35992), plastics packing and seals (formerly classified in product class 30795), and leather packings, oil and grease retainers, including seals (formerly classified in product class 31210), are included in this product class for 1972. This shift of products represents more than 15 percent of the total shipments value at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3292.--ASBESTOS PRODUCTS					
	Materials and components, parts, containers, and supplies, total.....		(X)	288.9	(X)	¹ 228.1
149971	Asbestos, crude (including fiber).....	1,000 s. tons.	448.1	78.7	441.6	55.7
324101	Portland cement.....	..do.....	504.8	13.4	551.7	10.8
207010	Vegetable oils, including crude and processed.....	Million lb....	28.5	3.5	34.9	5.9
282137	Vinyl and vinyl copolymer resins, all forms.....	..do.....	219.7	26.9	195.9	27.7
280023	Pigment, organic, and inorganic.....	..do.....	57.3	13.5	58.2	12.3
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	144.4	(X)	103.7
973000	Materials, components, parts, containers, and supplies, n.s.k. ² ...		(X)	8.5	(X)	12.3
	INDUSTRY 3293.--GASKETS, PACKING AND SEALING DEVICES					
	Materials and components, parts, containers, and supplies, total.....		(X)	228.0	(X)	129.3
149971	Asbestos, crude (including fiber).....	1,000 s. tons.	(S)	13.6	(S)	11.5
970099	All other material and components, parts, containers, and supplies consumed.....		(X)	178.7	(X)	96.1
973000	Materials and components, parts, containers, and supplies, n.s.k. ² ...		(X)	35.7	(X)	21.7

(X) Not applicable. (S) Withheld because the estimate did not meet publication standards either on the basis of the associated standard error of estimate or on the basis of a consistency review.

¹Data shown for 1967 are somewhat understated since these figures are for the 1967 industry 3292. The revisions for the 1972 SIC for this industry are considered significant. (See text.)

²This item represents the total cost of materials for establishments that did not report detailed materials data.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3291.--ABRASIVE PRODUCTS						
	Purchased fuels and electric energy.....		(X)	14.1	(X)	11.0
	Purchased fuels, total.....		(X)	6.6	(X)	4.5
121005	Coal.....	1,000 s. tons.....	27.5	.3	77.5	.8
331212	Coke.....	..do.....	(S)	.3	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	552.1	2.0	316.6	1.1
291141	Distillate.....	..do.....	247.7	1.1	149.8	.6
291151	Residual.....	..do.....	304.4	.9	166.8	.5
131300	Natural gas.....	Billion ft ³	2.8	1.9	(S)	1.8
960011	Other fuels.....		(X)	.4	(X)	.4
975000	Fuels, n.s.k.....		(X)	1.6	(X)	.4
960012	Purchased electric energy.....	Million kWh.....	596.7	7.5	693.3	6.5
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	35.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	3.9	-	2.9	-
INDUSTRY 3295.--MINERALS, GROUND OR TREATED						
	Purchased fuels and electric energy.....		(X)	23.5	(X)	12.5
	Purchased fuels, total.....		(X)	15.1	(X)	7.7
121005	Coal.....	1,000 s. tons.....	208.5	1.5	(S)	.3
331212	Coke.....	..do.....	(S)	1.2	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	539.9	2.5	(S)	2.3
291141	Distillate.....	..do.....	181.9	.9	260.3	1.3
291151	Residual.....	..do.....	358.1	1.6	(S)	1.0
131300	Natural gas.....	Billion ft ³	16.2	7.9	8.3	3.3
960011	Other fuels.....		(X)	.7	(X)	.4
975000	Fuels, n.s.k.....		(X)	1.2	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	624.5	8.4	334.0	4.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	.5	-
	Total energy used for heat and power.....	Bil. kWh equiv....	9.5	-	(NA)	5,764.0
INDUSTRY 3296.--MINERAL WOOL						
	Purchased fuels and electric energy.....		(X)	31.9	(X)	20.9
	Purchased fuels, total.....		(X)	21.4	(X)	13.5
121005	Coal.....	1,000 s. tons.....	61.6	.5	145.4	.9
331212	Coke.....	..do.....	(S)	3.9	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	341.0	1.7	170.4	.5
291141	Distillate.....	..do.....	140.1	.8	40.2	.2
291151	Residual.....	..do.....	200.9	.9	130.2	.3
131300	Natural gas.....	Billion ft ³	30.0	14.3	24.1	9.4
960011	Other fuels.....		(X)	.4	(X)	1.3
975000	Fuels, n.s.k.....		(X)	.6	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	1,072.1	10.5	803.9	7.4
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	3.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	13.0	-	10.7	-
INDUSTRY 3297.--NONCLAY REFRACTORIES						
	Purchased fuels and electric energy.....		(X)	13.1	(X)	12.1
	Purchased fuels, total.....		(X)	8.1	(X)	8.1
121005	Coal.....	1,000 s. tons.....	135.0	1.7	(NA)	(D)
331212	Coke.....	..do.....	(S)	(Z)	(NA)	(D)
	Fuel oil, total.....	1,000 bbl (42 gal)	229.7	1.0	(S)	.9
291141	Distillate.....	..do.....	197.1	.9	166.7	.7
291151	Residual.....	..do.....	32.6	.1	(S)	.2
131300	Natural gas.....	Billion ft ³	8.0	4.8	10.2	5.1
960011	Other fuels.....		(X)	(Z)	(X)	.2
975000	Fuels, n.s.k.....		(X)	.6	(X)	(D)
960012	Purchased electric energy.....	Million kWh.....	460.2	5.0	360.2	4.0
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.8	-	5.7	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

MAJOR GROUP 33

Primary Metal Industries

- 33A Blast furnaces, steelworks, and rolling and finishing mills
- 33B Ferrous and nonferrous foundries
- 33C Smelting and refining of nonferrous metals and alloys
- 33D Nonferrous metal mills and miscellaneous primary metal products

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke. Establishments primarily engaged in manufacturing metal forgings or stampings are classified in group 346.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees ¹		Production workers			Value added by manufacture ²	Cost of materials ³	Value of industry shipments ³	Capital expenditures, new ⁴
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: ⁵											
1972.....	7,151	4,107	1,185.3	12,784.8	922.7	1,849.9	9,202.4	23,258.1	35,708.9	58,429.7	2,160.6
1967.....	7,107	4,240	1,329.1	10,395.7	1,041.5	2,088.7	7,457.3	19,978.2	27,219.9	46,730.9	3,134.1
1963.....	6,739	3,735	1,169.0	8,149.0	922.2	1,839.0	5,933.6	15,261.1	20,474.2	35,621.5	1,446.3
1958.....	6,661	3,545	1,129.5	6,600.3	882.9	1,670.0	4,695.8	11,542.2	(NA)	27,323.6	1,543.7
1954.....	(NA)	(NA)	1,187.1	5,509.0	966.5	1,865.7	4,104.7	9,771.6	(NA)	(NA)	910.4
Administrative and auxiliary units:											
1972 ⁶	359	206	42.5	618.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 ⁶	270	158	48.1	544.8	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 ⁶	226	150	40.4	414.8	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 ⁶	214	133	37.6	319.8	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 ⁶	(NA)	(NA)	34.9	248.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	6,792	3,901	1,142.8	12,166.5	922.7	1,849.9	9,202.4	23,258.1	35,708.9	58,429.7	2,160.6
1967.....	6,837	4,082	1,281.0	9,850.9	1,041.5	2,088.7	7,457.3	19,978.2	27,219.9	46,730.9	3,134.1
1963.....	6,513	3,583	1,126.5	7,734.1	922.2	1,839.0	5,933.6	15,261.1	20,474.2	35,621.5	1,446.3
1958.....	6,447	3,412	1,091.9	6,280.5	882.9	1,670.0	4,695.8	11,542.2	(NA)	27,323.6	1,543.7
1954 ⁷	(NA)	(NA)	1,152.2	5,260.1	966.5	1,865.7	4,104.7	9,771.6	(NA)	(NA)	910.4
Operating manufacturing establishments (original).....	5,838	(NA)	1,119.7	5,111.5	938.5	1,812.0	3,985.5	9,390.4	(NA)	(NA)	831.1
Operating manufacturing establishments:											
1971 ⁸	(NA)	(NA)	1,169.3	11,204.6	931.4	1,831.8	8,300.6	21,119.8	31,867.5	53,067.3	2,197.5
1970 ⁸	(NA)	(NA)	1,261.2	11,251.9	1,013.5	2,009.0	8,410.2	21,444.6	32,629.8	53,510.7	2,736.7
1969 ⁸	(NA)	(NA)	1,310.5	11,447.4	1,064.3	2,171.5	8,687.7	22,729.0	32,956.6	55,257.9	2,815.9
1968 ⁸	(NA)	(NA)	1,274.7	10,479.2	1,033.4	2,090.4	7,922.2	20,973.7	29,346.3	50,317.0	3,102.3
1966 ⁸	(NA)	(NA)	1,296.2	9,911.0	1,065.5	2,191.3	7,648.6	20,898.8	29,130.0	49,528.4	2,765.1
1965 ⁸	(NA)	(NA)	1,250.3	9,237.6	1,025.6	2,105.4	7,176.4	18,924.4	26,509.6	45,302.8	2,257.0 ⁹
1964 ⁸	(NA)	(NA)	1,180.5	8,487.9	973.4	1,994.4	6,577.6	16,692.4	23,526.9	40,032.4	1,886.0
1962 ⁸	(NA)	(NA)	1,128.1	7,482.2	917.1	1,795.5	6,657.8	13,677.9	19,744.4	33,644.9	1,158.7
1961 ⁸	(NA)	(NA)	1,099.8	7,059.5	890.9	1,723.1	5,271.0	12,758.5	18,724.1	31,521.9	1,222.4
1960 ⁸	(NA)	(NA)	1,174.5	7,214.8	956.9	1,836.5	5,424.3	13,283.3	(NA)	(NA)	1,615.4
1959 ⁸	(NA)	(NA)	1,143.6	7,057.4	947.0	1,830.1	5,354.0	13,577.6	(NA)	(NA)	1,076.0
1957 ^{7 8}	(NA)	(NA)	1,271.9	7,018.6	1,053.3	2,057.4	5,440.0	13,320.3	(NA)	(NA)	2,149.8
1956 ^{7 8}	(NA)	(NA)	1,319.2	6,892.6	1,109.5	2,195.4	5,444.3	13,848.0	(NA)	(NA)	1,651.0
1955 ^{7 8}	(NA)	(NA)	1,273.7	6,418.3	1,075.7	2,192.3	5,117.1	12,962.9	(NA)	(NA)	977.4
1953 ⁸	(NA)	(NA)	1,287.8	6,001.7	1,102.5	2,253.0	4,867.4	11,004.0	(NA)	(NA)	1,211.7
1952 ⁸	(NA)	(NA)	1,240.3	5,214.6	1,065.6	2,071.4	4,204.2	9,050.5	(NA)	(NA)	(NA)
1951 ⁸	5,490	(NA)	1,244.2	5,137.3	1,079.1	2,255.9	4,218.8	9,760.6	(NA)	(NA)	1,126.7
1950 ⁸	5,322	(NA)	1,129.0	4,157.5	977.5	2,008.7	3,400.1	7,951.0	(NA)	(NA)	548.3
1949 ⁸	(NA)	(NA)	1,016.3	3,464.6	868.1	1,701.6	2,769.6	5,710.2	(NA)	(NA)	568.0
1947.....	5,465	(NA)	1,158.2	3,601.8	1,012.0	2,053.7	2,982.7	5,733.0	(NA)	(NA)	592.2
1939 ⁹	3,512	(NA)	(NA)	(NA)	672.4	(NA)	978.4	2,168.9	(NA)	(NA)	(NA)
1937 ⁹	3,245	(NA)	(NA)	(NA)	792.1	(NA)	1,204.9	2,520.0	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

²For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

³The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

⁴The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

⁵Data for 1972 are not directly comparable to 1971 and earlier years. See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

⁶In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative office and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, and prior to 1949.

⁷The 1957 edition of the Standard Industrial Classification classified beehive coke ovens and by-product coke ovens in Major Group 33. Such establishments were previously included in Major Group 29, Petroleum and Coal Products. However, this change was reflected in the tabulations for the 1955 to 1957 annual survey of manufactures. Data for 1954 were retabulated on this basis and are the source of the data labeled (original).

⁸These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. The estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

⁹The figures for 1939 to 1958 are not entirely comparable with those for 1937 because the 1937 figures (a) include data for establishments primarily engaged in producing certain nonferrous bearings and aluminum products, ship bunks, ornamental metal work, stampings, novelties, valves and fittings, machined castings, and tags, and (b) exclude data for establishments primarily engaged in making electrometallurgical products, non-ferrous die castings and forgings, cast aluminum cooking ware, and in the heat treating of steel. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$2,131.2 million. Figures have not been compiled for 1935 and prior years because of large elements of noncomparability in the earlier statistics of a number of industries included in the primary metal group.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
33	PRIMARY METAL INDUSTRIES	6 792	3 901	1 142.6	12 166.5	922.7	1 849.9	9 202.4	23 259.1	35 708.9	58 429.7	2 160.6	(NA)	(NA)
	NORTHEAST REGION	1 986	1 085	332.0	3 459.5	263.5	519.4	2 562.7	6 249.1	10 386.8	16 420.7	478.3	404.6	5 191.7
	NEW ENGLAND DIVISION	590	305	50.0	462.8	39.6	81.9	329.2	929.2	1 406.1	2 303.6	73.7	65.4	1 044.1
	MAINE	13	5	CC	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)
	NEW HAMPSHIRE	30	19	2.5	21.6	1.9	4.0	13.9	40.4	25.4	64.8	2.3	2.7	36.9
	VERMONT	10	7	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)
	MASSACHUSETTS	229	114	14.0	124.8	11.4	23.7	91.7	239.3	323.4	551.2	12.1	22.8	312.9
	RHODE ISLAND	103	45	9.2	79.0	7.5	15.2	57.3	175.6	279.8	444.1	16.8	17.7	152.0
	CONNECTICUT	205	114	22.4	224.6	17.3	36.2	157.6	424.9	741.4	1 179.4	41.9	67.1	474.5
	MIDDLE ATLANTIC DIVISION	1 396	740	282.0	2 996.8	223.9	437.5	2 233.5	5 319.9	8 980.7	14 117.2	404.5	343.6	5 162.3
	NEW YORK	473	229	56.4	579.2	44.3	86.3	220.9	1 040.2	1 745.7	3 005.0	62.5	72.9	1 063.7
	NEW JERSEY	336	180	30.7	299.7	23.5	48.2	209.1	562.5	1 347.6	1 932.4	30.1	27.0	574.1
	PENNSYLVANIA	595	371	194.9	2 117.9	156.1	303.1	1 603.5	3 697.2	5 527.6	9 179.3	291.9	233.1	3 510.7
	NORTH CENTRAL REGION	2 643	1 603	493.9	5 509.6	403.9	821.1	4 234.7	10 440.2	14 260.0	24 459.6	912.7	556.0	8 590.4
	EAST NORTH CENTRAL DIVISION	2 275	1 388	457.6	5 100.0	374.6	762.0	3 974.3	9 767.3	13 151.3	22 573.0	670.2	519.0	8 079.5
	OHIO	653	405	146.2	1 623.2	121.2	243.4	1 279.7	3 235.3	4 175.8	7 336.6	248.5	109.5	2 722.5
	INDIANA	277	173	102.5	1 171.9	83.0	165.5	685.4	2 192.0	3 316.6	5 414.1	234.6	111.0	1 617.8
	ILLINOIS	569	353	96.2	1 070.7	79.4	160.4	806.3	1 916.1	2 845.8	4 721.4	149.6	133.5	1 884.2
	MICHIGAN	552	312	86.1	1 052.4	70.7	149.1	815.4	1 948.5	2 503.3	4 436.3	213.3	97.3	1 471.7
	WISCONSIN	224	145	24.5	241.8	20.3	41.9	187.5	415.4	349.7	761.2	24.1	32.4	432.8
	WEST NORTH CENTRAL DIVISION	366	215	36.4	348.6	29.3	59.1	260.4	732.9	1 068.7	1 786.7	42.4	37.0	511.1
	MINNESOTA	111	56	7.1	67.5	5.8	11.7	50.9	129.4	95.6	222.7	8.3	7.7	83.9
	IOWA	65	42	8.3	64.4	6.7	13.6	64.3	138.1	253.0	380.3	12.5	6.5	120.1
	MISSOURI	175	73	16.2	151.9	12.7	25.7	113.6	347.0	468.9	528.9	10.3	14.7	216.3
	NEBRASKA	19	11	2.6	24.6	2.0	4.2	19.7	68.3	200.6	274.9	4.6	2.5	87.9
	KANSAS	47	31	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	FF	(U)
	SOUTH REGION	1 119	696	216.9	2 167.3	176.4	352.9	1 641.6	4 369.1	6 550.1	10 277.3	325.5	209.7	3 327.3
	SOUTH ATLANTIC DIVISION	424	243	87.3	916.8	70.0	140.1	663.5	1 723.4	2 476.9	4 209.2	224.3	65.2	1 355.9
	DELAWARE	16	8	2.4	22.7	1.8	3.5	16.2	36.1	53.0	64.6	1.6	2.5	23.1
	MARYLAND	57	27	29.6	341.1	22.8	43.2	245.0	626.5	713.0	1 339.0	56.3	36.9	529.0
	VIRGINIA	43	30	7.9	72.4	7.0	14.9	60.1	137.3	206.6	344.4	42.1	6.5	62.3
	WEST VIRGINIA	42	27	22.7	278.5	18.7	36.7	217.8	532.2	771.6	1 299.6	57.1	23.3	425.2
	NORTH CAROLINA	69	40	6.4	52.7	5.2	10.5	38.1	127.0	173.1	313.3	6.4	5.7	62.2
	SOUTH CAROLINA	35	23	3.3	27.6	2.3	5.8	20.8	58.9	98.4	152.6	9.3	1.5	16.1
	GEORGIA	73	46	11.0	90.6	8.5	18.2	62.9	130.8	346.7	488.0	46.1	5.7	75.7
	FLORIDA	94	42	4.0	31.1	3.2	6.7	72.5	74.6	112.6	183.7	5.5	3.0	43.7
	EAST SOUTH CENTRAL DIVISION	332	240	79.0	781.8	65.7	132.7	611.2	1 524.4	2 569.5	4 044.5	196.6	75.3	1 045.2
	KENTUCKY	67	49	15.2	103.4	12.2	24.8	124.1	400.9	769.1	1 159.1	87.6	13.1	215.6
	TENNESSEE	100	69	17.1	153.9	14.4	29.5	121.6	270.5	446.8	744.3	53.2	16.3	225.2
	ALABAMA	140	102	44.2	447.3	37.0	73.8	352.3	806.1	1 250.4	2 116.4	51.2	44.5	635.6
	MISSISSIPPI	25	20	2.5	17.2	2.2	4.6	13.3	46.9	61.2	124.6	4.4	1.2	10.9
	WEST SOUTH CENTRAL DIVISION	363	213	50.6	468.7	40.7	80.1	347.1	1 121.3	1 563.7	2 623.7	104.6	49.2	672.1
	ARKANSAS	33	28	5.8	49.2	4.8	9.6	37.4	111.6	231.6	339.7	14.3	1.0	75.7
	LOUISIANA	26	19	7.3	75.1	5.9	11.9	58.0	145.0	187.4	329.9	5.6	4.2	107.4
	OKLAHOMA	52	35	4.4	36.5	3.6	7.1	27.8	79.8	32.8	160.4	3.6	4.2	75.0
	TEXAS	250	131	33.1	307.0	26.4	51.5	223.0	784.9	1 001.7	1 793.7	51.1	36.8	639.0
	WEST REGION	1 042	517	99.9	1 031.1	78.9	156.5	763.2	2 199.7	4 492.0	6 571.6	244.1	109.7	1 666.5
	MOUNTAIN DIVISION	176	82	29.6	314.5	24.2	48.2	245.2	644.4	2 346.6	3 182.1	141.7	25.3	552.5
	MONTANA	12	7	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	FF	(U)
	IDAHOO	9	3	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	EE	(U)
	COLORADO	69	21	7.8	84.7	6.3	12.9	69.2	130.2	136.1	272.9	(U)	8.2	109.5
	NEW MEXICO	8	4	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	FF	(U)
	ARIZONA	47	27	7.6	78.9	6.2	12.7	54.4	309.9	676.4	1 163.4	84.0	1.6	77.3
	UTAH	31	15	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	FF	(U)
	NEVADA	9	3	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	EE	(U)
	PACIFIC DIVISION	866	435	70.3	714.4	54.7	108.3	518.1	1 355.3	2 145.4	3 489.6	102.4	75.8	1 339.9
	WASHINGTON	85	47	13.0	145.8	10.5	20.7	110.6	365.1	646.6	1 032.0	30.0	13.1	297.7
	OREGON	63	35	FF	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	FF	(U)
	CALIFORNIA	715	352	49.9	493.0	38.6	76.5	354.9	852.3	1 343.9	2 166.2	63.9	56.0	933.3
	HAWAII	3	1	AA	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	AA	(U)
331	BLAST FURNACE, BASIC STEEL PROD.	970	696	552.9	6 388.6	445.6	874.3	4 872.3	12 116.1	16 967.9	28 652.3	1 058.8	(NA)	(NA)
	NORTHEAST REGION	305	215	182.9	2 067.3	145.7	280.5	1 557.1	3 652.0	5 445.9	8 930.5	277.4	228.9	3 556.7
	NEW ENGLAND DIVISION	61	43	8.6	89.6	6.8	14.1	62.7	166.3	210.0	391.2	11.5	12.5	194.6
	NEW HAMPSHIRE	3	2	EE	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)
	MASSACHUSETTS	26	16	2.5	24.3	2.0	4.1	17.2	48.0	45.2	91.5	2.2	3.0	64.0
	RHODE ISLAND	7	4	1.8	17.0	1.5	3.1	12.2	34.8	22.1	55.7	1.7	1.7	(U)
	CONNECTICUT	20	17	4.0	45.2	3.0	6.2	30.9	97.5	138.0	233.4	7.5	5.2	99.0
	MIDDLE ATLANTIC DIVISION	244	172	174.1	1 972.7	136.8	266.4	1 494.4	3 465.7	5 235.8	8 639.4	265.9	216.4	3 363.9
	NEW YORK	53	30	21.2	238.2	16.5	30.7	174.2	403.9	538.5	915.8	25.5	33.6	465.0
	NEW JERSEY	40	26	4.4	46.3	3.2	6.7	32.6	91.0	120.6	210.6	5.6	5.6	53.6
	PENNSYLVANIA	145	116	146.6	1 688.2	119.1	229.0	1 267.4	2 976.8	4 576.7				

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials ²	Value of shipments ²	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
331	BLAST FURNACE, BASIC STEEL PRODUCTS--CONTINUED													
	SOUTH REGION	206	154	92.9	1 026.1	75.1	146.6	777.2	2 058.7	2 323.9	4 335.8	178.6	95.9	1 573.1
	SOUTH ATLANTIC DIVISION	79	60	47.7	546.8	38.5	75.5	411.5	1 038.6	1 101.3	2 120.3	98.1	FF	(D)
	DELAWARE	4	3	FE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	MARYLAND	15	12	23.7	272.2	18.3	34.4	193.5	489.6	445.6	922.0	(D)	FF	(D)
	VIRGINIA	6	5	.9	8.6	.8	1.9	6.9	19.9	28.5	48.0	(D)	.7	11.4
	WEST VIRGINIA	12	11	15.7	198.0	13.5	27.0	160.0	399.9	413.6	613.5	50.7	15.2	302.3
	NORTH CAROLINA	7	4	.5	3.8	.4	.9	2.9	11.0	11.6	22.0	.9	bb	(D)
	SOUTH CAROLINA	7	6	1.8	16.2	1.5	3.1	12.4	34.3	59.4	90.2	5.0	bb	(D)
	GEORGIA	11	7	2.0	20.0	1.6	3.4	15.2	26.0	56.9	83.3	.7	2.0	19.5
	FLORIDA	17	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	14.7
	EAST SOUTH CENTRAL DIVISION	65	57	31.9	348.9	26.5	51.9	273.1	667.6	856.9	1 517.7	42.9	34.0	562.9
	KENTUCKY	15	13	8.0	96.1	6.6	13.3	75.5	224.6	260.6	477.7	7.4	8.8	155.0
	TENNESSEE	14	13	3.1	24.7	2.5	5.2	18.8	43.2	57.1	101.8	6.3	2.4	30.9
	ALABAMA	31	27	20.4	224.9	17.0	32.6	170.5	412.2	525.2	916.7	28.6	22.5	373.0
	MISSISSIPPI	5	4	.4	3.3	.3	.7	2.3	7.6	14.0	21.5	.4	.2	3.9
	WEST SOUTH CENTRAL DIVISION	64	37	13.2	130.3	10.1	19.5	92.6	332.5	365.7	697.6	37.6	11.2	200.6
	ARKANSAS	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(.5)
	LOUISIANA	6	3	AB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	OKLAHOMA	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	TEXAS	49	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.4	191.3
	WEST REGION	119	72	34.0	395.7	26.0	50.7	298.6	679.6	968.5	1 648.9	61.3	36.7	642.1
	MOUNTAIN DIVISION	18	0	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	COLORADO	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	UTAH	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	PACIFIC DIVISION	101	66	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WASHINGTON	10	6	1.8	19.9	1.4	2.6	14.2	42.9	32.6	74.6	(D)	2.3	35.0
	OREGON	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	CALIFORNIA	80	52	19.6	224.0	14.5	27.8	164.0	342.0	646.3	964.5	26.0	22.4	373.6
	HAWAII	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
332	IRON AND STEEL FOUNDRIES	1 400	1 050	218.8	2 155.3	183.8	376.5	1 704.8	3 481.3	2 264.3	5 713.9	279.9	(NA)	(NA)
	NORTHEAST REGION	318	232	37.8	340.3	31.3	61.7	260.9	544.2	366.7	909.8	35.3	46.1	492.3
	NEW ENGLAND DIVISION	81	60	6.6	55.1	5.6	11.1	41.7	92.3	41.3	132.5	6.2	8.5	82.1
	NEW HAMPSHIRE	9	6	.9	8.0	.7	1.4	4.7	14.4	4.6	18.8	.6	1.0	4.6
	MASSACHUSETTS	36	28	2.6	21.3	2.4	4.6	17.8	34.9	17.5	51.6	(D)	3.6	33.9
	RHODE ISLAND	8	6	.8	7.1	.7	1.3	5.1	10.5	5.5	16.4	(D)	.5	4.0
	CONNECTICUT	19	16	2.1	17.4	1.8	3.5	13.3	30.3	12.3	42.2	1.3	2.9	31.3
	MIDDLE ATLANTIC DIVISION	237	172	31.2	285.2	25.7	50.6	219.2	451.9	325.4	777.3	27.1	37.7	410.1
	NEW YORK	62	44	6.9	65.4	5.7	11.3	50.8	107.9	67.9	175.4	6.3	8.3	96.5
	NEW JERSEY	40	25	4.6	41.2	3.7	7.9	31.2	77.9	65.5	144.3	4.5	5.5	66.3
	PENNSYLVANIA	135	103	19.7	178.6	16.3	31.4	137.2	266.0	192.0	457.6	16.2	23.9	247.3
	NORTH CENTRAL REGION	624	495	125.2	1 363.3	104.9	218.9	1 086.3	2 158.4	1 319.4	3 463.2	187.6	134.1	1 621.3
	EAST NORTH CENTRAL DIVISION	517	415	115.3	1 270.3	96.6	202.5	1 020.3	2 014.5	1 229.4	3 230.5	179.1	122.1	1 405.0
	OHIO	139	112	30.4	340.3	25.6	53.1	276.2	542.0	339.5	880.9	43.6	32.4	402.2
	INDIANA	69	55	13.9	132.8	11.9	23.5	107.0	224.5	109.5	333.6	13.9	15.4	171.5
	ILLINOIS	102	84	19.7	190.8	16.4	33.5	149.0	303.5	185.2	483.1	18.9	21.1	271.3
	MICHIGAN	115	88	37.5	480.2	31.2	68.9	382.6	729.9	480.3	1 203.9	85.8	37.5	462.3
	WISCONSIN	92	76	13.8	135.2	11.4	23.5	105.5	214.5	115.0	329.0	11.9	15.7	187.8
	WEST NORTH CENTRAL DIVISION	107	80	9.9	84.0	8.4	16.3	66.0	143.9	90.0	232.7	8.5	12.0	126.7
	MINNESOTA	33	22	2.0	17.8	1.6	3.2	13.7	33.0	16.9	49.1	1.8	1.7	20.6
	IOA	24	21	2.8	26.7	2.4	4.7	20.9	46.2	33.0	79.0	3.1	2.7	30.7
	MISSOURI	27	20	3.4	26.7	2.9	5.7	21.7	44.1	26.5	70.4	2.4	4.7	49.3
	NEBRASKA	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	KANSAS	17	13	1.1	7.8	1.0	1.8	5.9	15.5	8.4	23.9	.7	2.0	19.2
	SOUTH REGION	282	207	42.2	329.0	36.3	73.5	263.7	566.4	445.9	1 005.2	47.1	38.6	363.3
	SOUTH ATLANTIC DIVISION	98	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.2	111.1
	DELAWARE	2	2	AB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	MARYLAND	9	4	.5	4.1	.4	.8	3.3	8.2	5.0	12.6	.5	.8	7.7
	VIRGINIA	18	14	5.0	43.8	4.5	9.6	38.1	82.6	53.6	135.2	9.2	FF	(D)
	WEST VIRGINIA	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	11.9
	NORTH CAROLINA	15	11	1.4	10.0	1.3	2.6	6.6	21.1	14.7	35.6	.7	1.5	14.5
	SOUTH CAROLINA	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	GEORGIA	22	17	2.2	14.0	1.9	3.7	10.9	21.8	10.9	32.4	2.3	.9	6.6
	FLORIDA	15	9	.9	6.0	.7	1.5	4.4	9.4	6.7	15.9	.8	.9	7.9
	EAST SOUTH CENTRAL DIVISION	95	76	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.6	153.7
	KENTUCKY	5	4	.2	1.0	.1	.2	.6	.7	1.1	1.7	(D)	.2	2.4
	TENNESSEE	30	22	5.0	38.9	4.3	9.0	30.7	66.9	53.9	119.1	(D)	4.0	34.7
	ALABAMA	45	48	13.9	110.1	11.9	24.1	88.1	174.8	202.0	375.8	13.9	13.2	114.0
	MISSISSIPPI	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.6
	WEST SOUTH CENTRAL DIVISION	89	62	11.3	87.9	9.6	19.0	68.3	157.6	85.0	240.6	10.8	10.8	93.5
	ARKANSAS	6	6	.7	4.2	.6	1.2	.8	3.2	3.9	11.7	1.7	.6	4.6
	LOUISIANA	7	7	1.4	11.3	1.2	2.5	9.2	15.0	11.5	30.4	.5	1.1	7.4
	OKLAHOMA	14	12	1.3	9.7	1.1	2.2	7.7	16.6	5.8	22.2	1.1	1.2	10.0
	TEXAS	60	37	7.9	62.7	6.6	13.2	48.2	114.1	63.9	174.3	7.5	7.9	73.9
	WEST REGION	176	116	13.5	122.7	11.3	22.4	93.9	212.3	132.2	335.6	9.9	13.6	153.6
	MOUNTAIN DIVISION	28	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	COLORADO	11	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	ARIZONA	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	UTAH	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	PACIFIC DIVISION	148	98	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WASHINGTON	28	15	1.3	12.2	1.1	2.1	9.7	18.6	10.3	25.6	.6	1.6	18.3
	OREGON	10	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	CALIFORNIA	105	72	7.2	64.3	6.1	12.1	49.6	107.4	74.4	180.4	4.6	4.0	94.3

¹ Footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
333	PRIMARY NONFERROUS METALS.	177	124	58.0	626.9	46.5	92.1	465.8	1 705.5	4 241.9	5 964.2	242.2	(NA)	(NA)
	NORTHEAST REGION	51	29	10.0	105.7	7.8	15.7	75.9	209.3	535.4	744.4	24.0	9.3	171.2
	MIDDLE ATLANTIC DIVISION	40	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.1	153.9
	NEW YORK	15	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	63.4
	NEW JERSEY	16	11	4.2	40.9	3.4	6.6	31.6	70.0	259.1	325.7	4.8	3.1	37.1
	PENNSYLVANIA	14	7	3.4	37.0	2.5	5.3	24.6	59.4	131.7	194.0	5.3	3.6	63.4
	NORTH CENTRAL REGION	75	20	4.0	50.0	3.0	7.5	37.8	192.8	432.0	602.2	8.1	6.2	120.9
	EAST NORTH CENTRAL DIVISION.	26	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	OHIO	6	3	2	2.2	2	3	1.5	5.6	27.9	33.9	(2)	FF	(D)
	INDIANA	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	ILLINOIS	8	5	5	4.5	4	7	3.3	9.6	74.3	84.7	4	1.1	10.9
	MICHIGAN	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	WEST NORTH CENTRAL DIVISION.	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	MISSOURI	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	NEBRASKA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	SOUTH REGION	41	35	24.5	268.7	19.5	37.8	200.0	625.5	1 027.9	1 583.7	143.1	22.2	613.9
	SOUTH ATLANTIC DIVISION.	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	137.0
	MARYLAND	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST VIRGINIA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	NORTH CAROLINA	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	EAST SOUTH CENTRAL DIVISION.	10	0	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	90.9
	KENTUCKY	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	ALABAMA	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST SOUTH CENTRAL DIVISION.	22	20	15.6	169.4	12.5	24.2	126.8	422.9	592.7	1 024.4	33.3	14.2	373.3
	ARKANSAS	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	LOUISIANA	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	OKLAHOMA	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	TEXAS	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	227.1
	WEST REGION.	50	40	19.4	202.5	15.6	31.1	152.1	677.9	2 246.6	2 533.9	116.4	15.7	467.0
	MOUNTAIN DIVISION.	31	26	11.3	112.7	9.5	18.7	87.8	397.7	1 780.8	2 100.0	97.7	7.9	252.3
	MONTANA	9	0	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	IDAHO.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	NEW MEXICO	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	ARIZONA.	9	9	3.4	36.4	2.9	6.1	28.5	162.3	647.4	859.0	75.1	EE	(D)
	UTAH	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	NEVADA	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	PACIFIC DIVISION	19	14	8.1	89.8	6.2	12.4	64.3	280.2	465.8	767.3	18.7	7.8	246.4
	WASHINGTON	11	10	6.1	62.5	4.6	9.6	52.3	239.6	410.6	664.1	15.0	5.3	180.4
	OREGON	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
334	SECONDARY NONFERROUS METALS.	381	184	17.8	170.1	13.1	26.0	108.2	410.9	1 685.0	2 097.2	34.6	(NA)	(NA)
	NORTHEAST REGION	137	53	5.7	54.1	4.1	7.6	33.6	122.5	585.4	704.8	8.5	5.6	89.0
	NEW ENGLAND DIVISION	32	10	5	5.0	4	8	2.7	15.9	36.0	53.1	1.1	(NA)	(NA)
	MASSACHUSETTS.	15	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	105	43	5.1	49.1	3.7	7.0	30.9	106.6	548.5	651.8	7.3	(NA)	(NA)
	NEW YORK	43	13	1.6	16.8	1.2	2.1	10.5	42.4	214.7	256.2	2.6	(NA)	(NA)
	NEW JERSEY	28	12	1.4	13.7	1.0	2.0	8.8	27.0	162.8	190.2	4.8	(NA)	(NA)
	PENNSYLVANIA	34	16	2.1	18.6	1.5	2.9	11.6	37.2	171.0	205.4	3.9	(NA)	(NA)
	NORTH CENTRAL REGION	117	73	7.3	72.6	5.3	11.2	46.1	164.1	644.4	815.4	18.7	7.3	110.1
	EAST NORTH CENTRAL DIVISION.	101	65	6.0	60.7	4.4	9.3	38.2	138.2	493.0	632.6	17.0	(NA)	(NA)
	OHIO	28	19	1.7	17.7	1.3	2.9	11.8	32.6	123.1	156.1	1.7	(NA)	(NA)
	INDIANA	9	6	7	7.7	5	10	4.4	11.1	64.7	76.5	2.1	(NA)	(NA)
	ILLINOIS	39	28	2.6	26.6	1.9	3.9	16.3	54.1	248.8	300.8	10.5	(NA)	(NA)
	MICHIGAN	16	9	7	6.2	5	11	4.0	32.8	35.6	70.8	(D)	(NA)	(NA)
	WISCONSIN.	9	3	3	2.6	2	4	1.7	7.5	20.8	24.6	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION.	16	8	1.3	11.9	1.0	1.9	7.9	25.9	151.4	162.6	0	(NA)	(NA)
	MISSOURI	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	61	32	2.0	24.6	2.2	4.7	17.3	81.7	300.2	379.6	5.1	2.4	30.2
	SOUTH ATLANTIC DIVISION.	19	10	0.8	7.0	0.6	1.3	4.8	18.3	70.4	80.0	1.4	(NA)	(NA)
	DELAWARE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	3	3	2	1.6	1	3	1.1	4.5	23.9	28.6	2	(NA)	(NA)
	FLORIDA.	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION.	20	11	0.9	8.5	0.7	1.5	5.9	26.6	172.6	197.6	2.3	(NA)	(NA)
	KENTUCKY	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ALABAMA.	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION.	22	11	1.1	9.1	0.9	1.8	6.0	36.9	57.3	93.0	1.4	(NA)	(NA)
	LOUISIANA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS.	18	7	0.8	6.6	0.6	1.2	4.5	27.9	39.7	67.4	1.2	(NA)	(NA)
	WEST REGION.	66	26	2.0	19.7	1.5	2.9	11.3	42.6	165.1	197.4	2.0	1.9	31.3
	PACIFIC DIVISION	53	25	2.0	18.3	1.4	2.6	11.0	42.0	152.8	194.5	2.0	(NA)	(NA)
	WASHINGTON	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA	48	22	1.7	16.1	1.3	2.5	9.6	36.7	135.7	172.2	2.2	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
335	NONFERROUS ROLLING AND DRAWING . .	903	684	188.3	1 871.3	145.8	303.8	1 345.4	3 799.5	9 142.3	12 562.6	371.4	(NA)	(NA)
	NORTHEAST REGION	363	272	68.1	655.4	52.2	109.1	460.2	1 269.5	3 110.2	4 358.6	106.4	78.3	1 340.9
	NEW ENGLAND DIVISION	142	112	28.2	263.3	22.0	46.3	186.5	541.2	1 029.4	1 544.7	47.9	32.7	569.0
	MAINE	2	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW HAMPSHIRE	7	6	.6	7.0	.5	1.1	4.1	14.8	14.0	28.1	1.3	.7	11.0
	VERMONT	6	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	MASSACHUSETTS	48	34	6.6	58.9	5.2	11.3	42.7	119.1	208.9	318.4	6.1	4.1	135.6
	RHODE ISLAND	22	19	5.8	40.1	4.7	9.5	36.1	113.4	218.9	328.7	9.0	6.8	117.6
	CONNECTICUT	57	47	13.5	137.9	10.3	22.1	96.8	278.8	554.0	618.6	30.1	15.0	292.5
	MIDDLE ATLANTIC DIVISION	221	160	39.9	392.0	30.2	62.8	273.7	748.3	2 060.8	2 814.0	86.4	45.0	750.6
	NEW YORK	82	57	16.0	154.5	12.1	25.0	111.1	240.0	966.0	1 244.2	25.0	17.8	303.9
	NEW JERSEY	70	52	11.7	114.3	8.0	17.9	78.7	244.3	670.8	910.0	10.9	14.7	251.0
	PENNSYLVANIA	69	51	12.2	119.2	9.3	19.9	83.9	224.0	444.0	555.7	22.5	12.7	211.7
	NORTH CENTRAL REGION	250	193	57.7	599.8	44.8	93.2	436.0	1 244.6	2 919.7	4 137.3	100.9	61.0	1 074.4
	EAST NORTH CENTRAL DIVISION	215	171	50.7	522.2	39.3	81.4	378.5	1 076.0	2 562.5	3 565.5	89.6	54.3	950.3
	OHIO	55	42	9.9	102.1	7.4	15.4	69.2	154.4	435.7	583.2	7.9	11.4	184.2
	INDIANA	47	36	14.3	151.1	10.9	23.4	109.2	415.0	768.6	1 225.6	28.1	15.6	315.2
	ILLINOIS	53	46	16.0	166.7	12.4	25.3	121.0	298.1	769.6	1 043.5	36.5	15.4	265.0
	MICHIGAN	42	40	8.2	77.0	6.7	13.3	58.2	128.3	416.9	578.2	14.5	10.1	160.5
	WISCONSIN	8	5	2.4	25.4	1.9	4.0	20.1	50.3	61.7	130.0	2.3	1.0	29.6
	WEST NORTH CENTRAL DIVISION	35	22	7.0	77.6	5.4	11.8	57.5	168.5	417.3	671.8	11.3	5.8	124.1
	IOA	4	4	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	MISSOURI	15	9	2.0	16.7	1.0	3.5	13.1	45.9	110.2	162.7	1.4	EE	(0)
	NEBRASKA	4	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	KANSAS	5	4	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	SOUTH REGION	177	142	44.1	431.8	34.7	72.6	319.0	874.7	2 284.1	3 144.6	125.3	36.0	560.4
	SOUTH ATLANTIC DIVISION	76	61	20.9	211.7	15.6	32.6	146.6	386.0	957.1	1 344.2	90.1	17.5	274.0
	DELAWARE	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	MARYLAND	5	4	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.5	57.1
	VIRGINIA	8	5	1.8	17.6	1.4	3.0	13.3	26.4	68.7	126.1	22.4	EE	(0)
	WEST VIRGINIA	6	4	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	NORTH CAROLINA	19	18	3.5	28.1	2.0	5.6	19.7	73.3	121.6	192.1	3.6	2.4	45.4
	SOUTH CAROLINA	6	6	.6	4.7	.5	1.1	3.3	13.0	22.5	34.5	1.0	AA	(0)
	GEORGIA	20	17	6.3	53.7	4.7	10.4	34.6	76.2	268.2	353.0	42.0	2.2	40.6
	FLORIDA	13	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	12.3
	EAST SOUTH CENTRAL DIVISION	57	50	17.5	173.7	14.5	30.1	137.9	371.7	957.9	1 331.5	19.7	15.2	222.9
	KENTUCKY	21	18	4.3	39.7	3.4	7.0	29.9	128.5	311.7	436.3	(0)	2.5	42.2
	TENNESSEE	14	12	5.8	58.4	4.9	9.9	48.4	79.3	256.6	342.8	(0)	6.1	96.0
	ALABAMA	12	10	5.9	65.4	4.9	10.5	51.7	132.1	342.0	468.0	2.6	5.4	61.9
	MISSISSIPPI	10	10	1.5	10.1	1.3	2.8	7.9	31.8	57.5	85.4	3.1	.7	8.2
	WEST SOUTH CENTRAL DIVISION	42	31	5.6	46.4	4.6	9.8	34.5	117.0	359.1	468.9	15.5	3.4	62.4
	ARKANSAS	4	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	LOUISIANA	2	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OKLAHOMA	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	34	(0)
	TEXAS	29	16	2.8	22.8	2.3	4.7	16.8	56.8	203.0	258.9	5.0	2.3	41.4
	WEST REGION	113	77	18.4	184.3	14.0	28.9	130.2	390.8	828.3	1 222.1	38.5	19.5	349.2
	MOUNTAIN DIVISION	16	13	3.9	42.3	3.0	6.0	30.0	131.8	273.0	403.1	10.7	3.1	83.6
	ARIZONA	4	3	3.2	34.0	2.5	4.9	24.3	112.7	168.4	279.1	7.9	EE	(0)
	NEVADA	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	PACIFIC DIVISION	97	64	14.5	142.0	11.1	22.9	100.2	259.0	555.3	819.0	26.1	16.4	285.4
	WASHINGTON	10	9	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	OREGON	5	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	34	(0)
	CALIFORNIA	81	53	11.0	100.6	8.2	17.2	68.4	232.0	371.5	572.8	(0)	FF	(0)
336	NONFERROUS FOUNDRIES	1 841	792	61.4	721.6	68.5	137.0	548.6	1 269.1	1 063.9	2 323.6	73.5	(NA)	(NA)
	NORTHEAST REGION	506	191	20.6	178.2	17.1	34.0	134.4	298.2	230.8	524.1	17.2	23.3	265.3
	NEW ENGLAND DIVISION	167	52	4.0	32.4	3.3	6.7	24.4	55.4	43.5	98.3	2.2	4.3	47.9
	NEW HAMPSHIRE	3	3	.5	4.0	.4	.9	3.2	6.2	2.3	8.4	.2	.6	5.9
	MASSACHUSETTS	62	17	1.2	10.1	1.0	2.0	7.7	16.2	14.2	30.1	.0	1.3	15.6
	RHODE ISLAND	34	8	.4	2.4	.3	.6	1.8	5.3	4.5	10.1	.2	AA	(0)
	CONNECTICUT	58	21	1.9	15.6	1.6	3.1	11.6	27.3	21.9	48.9	1.2	2.1	22.5
	MIDDLE ATLANTIC DIVISION	341	139	16.6	145.8	13.3	27.3	110.0	242.9	167.3	427.6	15.0	19.0	217.3
	NEW YORK	141	50	7.0	61.5	5.8	11.5	47.3	102.4	79.5	101.2	7.3	7.0	76.7
	NEW JERSEY	72	32	2.4	21.3	2.0	4.1	15.3	33.6	34.1	64.6	1.5	4.5	52.4
	PENNSYLVANIA	128	51	7.2	63.0	6.0	11.7	47.4	106.8	73.7	178.0	6.2	7.5	86.2
	NORTH CENTRAL REGION	787	379	43.6	396.7	36.8	74.0	306.7	719.1	604.0	1 320.2	36.5	50.5	629.3
	EAST NORTH CENTRAL DIVISION	665	320	37.5	347.6	31.7	63.9	267.8	634.6	537.8	1 168.7	31.0	44.7	564.0
	OHIO	195	91	12.9	115.0	10.6	21.5	91.0	219.6	189.8	386.6	9.1	15.1	173.2
	INDIANA	64	31	4.0	39.9	3.4	6.4	31.8	67.5	76.9	143.8	6.5	3.3	73.0
	ILLINOIS	190	86	7.0	61.9	6.0	11.4	47.5	110.1	99.2	204.9	8.5	9.0	127.5
	MICHIGAN	160	74	8.8	82.5	7.4	15.2	62.4	126.2	134.1	290.0	5.2	10.6	130.9
	WISCONSIN	60	36	4.8	44.3	4.1	8.3	35.0	81.2	61.9	143.2	4.5	4.8	59.2
	WEST NORTH CENTRAL DIVISION	122	59	6.1	51.1	5.1	10.1	39.0	64.6	66.2	151.5	5.5	5.5	55.5
	MINNESOTA	28	16	1.9	14.6	1.6	3.3	15.0	32.2	21.0	52.4	1.4	2.0	23.7
	IOA	26	10	1.3	9.7	1.0	2.0	6.8	13.3	12.0	25.3	1.3	1.2	11.5
	MISSOURI	50	22	2.2	18.0	1.8	3.2	13.4	33.2	23.6	57.5	1.4	1.5	21.0
	NEBRASKA	4	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	5.5
	KANSAS	14	7	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	3.9

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
336	NONFERROUS FOUNDRIES--CONTINUED													
	SOUTH REGION	221	86	7.7	65.1	6.4	13.3	49.4	110.9	120.6	230.6	9.5	6.7	67.0
	SOUTH ATLANTIC DIVISION	92	29	1.7	11.7	1.4	2.7	8.6	22.2	13.9	36.0	1.3	1.4	13.4
	MARYLAND	11	3	.2	1.3	.1	.3	1.0	2.9	.9	3.6	.1	.3	2.9
	NORTH CAROLINA	16	6	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.0
	SOUTH CAROLINA	12	6	.4	7.0	.3	.7	2.0	5.2	3.9	9.1	.4	.2	1.4
	GEORGIA	12	3	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	(D)
	FLORIDA	31	10	.5	3.1	.4	.8	2.4	5.9	3.2	5.1	.2	.3	2.4
	EAST SOUTH CENTRAL DIVISION	45	23	3.7	36.9	3.0	6.6	28.4	54.8	75.0	130.3	4.7	2.7	26.1
	KENTUCKY	9	3	1.1	5.3	.8	1.7	5.7	13.0	15.2	28.1	1.7	.8	7.1
	TENNESSEE	16	8	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	ALABAMA	17	8	1.5	21.2	1.3	3.0	17.4	28.4	45.1	73.4	2.5	1.4	15.7
	MISSISSIPPI	3	2	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	94	34	2.4	16.5	2.1	4.1	12.5	33.9	30.8	64.3	3.9	2.5	25.0
	ARKANSAS	11	4	1.1	6.2	.9	1.6	5.3	16.4	14.9	36.8	2.7	.7	10.3
	OKLAHOMA	13	7	.4	2.7	.3	.6	1.9	5.9	3.6	6.5	.3	.2	2.4
	TEXAS	56	16	.9	5.3	.5	1.6	4.8	10.7	11.4	22.2	.6	1.4	12.7
	WEST REGION	325	136	9.5	70.4	8.0	15.7	56.0	140.9	108.6	246.9	9.9	9.2	105.9
	MOUNTAIN DIVISION	40	11	.5	3.7	.5	.6	2.9	6.1	3.4	9.4	.3	.4	3.2
	COLORADO	16	4	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.4
	ARIZONA	11	3	.2	1.9	.2	.4	1.4	2.5	1.5	4.4	.2	.3	2.5
	PACIFIC DIVISION	285	125	6.9	75.2	7.5	14.8	55.1	134.8	105.2	237.7	9.6	6.5	99.7
	WASHINGTON	15	4	.3	2.9	.3	.5	2.2	4.4	3.6	7.9	.3	.3	3.0
	OREGON	21	3	.5	6.9	.7	1.2	4.9	12.6	8.9	21.1	.4	.7	7.5
	CALIFORNIA	249	113	7.6	66.2	6.6	13.1	48.0	117.8	92.7	208.4	8.9	7.6	99.3
339	MISC. PRIMARY METAL PRODUCTS	1 120	371	25.0	232.2	19.4	39.7	157.3	475.7	343.6	815.7	50.0	(NA)	(NA)
	NORTHEAST REGION	306	93	7.0	63.5	5.2	10.6	40.8	133.5	112.5	246.4	8.9	(NA)	(NA)
	NEW ENGLAND DIVISION	101	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	35	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	RHODE ISLAND	22	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT	42	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	205	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK	77	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY	56	22	2.0	14.0	1.4	2.9	10.6	38.7	44.3	82.9	2.0	(NA)	(NA)
	PENNSYLVANIA	70	25	1.8	14.2	1.4	2.9	11.2	32.9	38.6	71.5	2.9	(NA)	(NA)
	NORTH CENTRAL REGION	492	198	12.4	119.7	9.7	20.0	82.5	235.5	150.8	364.4	19.6	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	445	170	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OHIO	126	46	2.7	25.0	2.2	4.3	17.5	46.1	35.9	81.5	3.6	(NA)	(NA)
	INDIANA	63	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	83	35	2.4	22.1	2.0	4.2	16.1	43.4	20.0	63.0	1.5	(NA)	(NA)
	MICHIGAN	153	60	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN	33	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	44	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MINNESOTA	24	6	.5	4.0	.4	.7	2.7	7.2	2.9	10.6	.4	(NA)	(NA)
	IOA	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	125	40	2.7	22.0	2.1	4.2	15.1	51.1	47.6	97.6	16.3	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	49	9	.6	5.4	.5	1.0	3.6	10.6	11.3	21.5	11.7	(NA)	(NA)
	FLORIDA	11	3	.2	1.0	.2	.4	1.3	3.4	1.5	4.2	.7	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	40	13	.9	7.6	.7	1.5	5.6	20.0	23.3	43.5	2.5	(NA)	(NA)
	KENTUCKY	8	4	FD	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE	15	6	.3	2.9	.3	.6	2.1	8.1	11.4	20.0	.4	(NA)	(NA)
	ALABAMA	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	40	18	1.2	9.0	.9	1.7	5.9	20.5	13.1	32.8	2.0	(NA)	(NA)
	OKLAHOMA	11	6	.5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	25	12	.7	5.4	.5	1.0	3.6	10.6	6.5	16.3	1.4	(NA)	(NA)
	WEST REGION	103	50	3.1	27.5	2.4	4.9	19.2	55.5	32.7	87.1	5.2	(NA)	(NA)
	MOUNTAIN DIVISION	30	7	.4	3.7	.4	.7	2.8	7.0	6.2	13.2	.4	(NA)	(NA)
	COLORADO	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	163	43	2.6	23.9	2.0	4.1	16.4	48.5	26.5	74.0	4.7	(NA)	(NA)
	OREGON	4	3	.2	1.7	.1	.2	1.3	2.7	7.6	10.4	.2	(NA)	(NA)
	CALIFORNIA	147	39	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,199 employees FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Primary metal industries (SIC 33)	Blast furnace and basic steel products (SIC 331)	Iron and steel foundries (SIC 332)	Primary nonferrous metals (SIC 333)	Secondary nonferrous metals (SIC 334)	Nonferrous rolling and drawing (SIC 335)	Nonferrous foundries (SIC 336)	Miscellaneous primary metal products (SIC 339)
ESTABLISHMENTS, TOTALNUMBER .	6 792	970	1 400	177	381	903	1 841	1 120
WITH 1 TO 19 EMPLOYEESDO .	2 891	274	350	53	197	219	1 049	749
WITH 20 TO 99 EMPLOYEESDO .	2 207	260	568	34	129	274	596	340
WITH 100 EMPLOYEES OR MOREDO .	1 694	430	482	90	55	410	196	31
ALL EMPLOYEES, AVERAGE FOR YEAR1,000 .	1 142.8	552.9	218.8	58.6	17.6	198.3	81.4	25.0
PAYROLL FOR YEAR, ALL EMPLOYEESMILLION DOLLARS .	12 166.5	6 388.6	2 155.3	626.9	170.1	1 871.3	721.5	232.8
PRODUCTION WORKERS:								
AVERAGE FOR YEAR1,000 .	922.7	445.6	183.8	46.5	13.1	145.8	68.5	19.4
MARCHDO .	897.7	431.5	181.4	45.7	13.1	140.9	66.3	18.9
MAYDO .	922.6	447.5	183.3	46.7	13.0	145.1	67.8	19.1
AUGUSTDO .	927.8	450.9	181.1	47.0	13.2	147.1	68.9	19.6
NOVEMBERDO .	942.6	452.4	189.6	46.7	13.2	149.9	70.9	19.9
MAN-HOURSMILLIONS .	1 849.9	874.3	376.5	92.1	26.6	303.8	137.0	39.7
JANUARY-MARCHDO .	446.4	208.2	92.3	22.4	6.6	73.8	33.4	9.6
APRIL-JUNEDO .	472.2	224.1	96.2	23.3	6.8	77.4	34.5	9.8
JULY-SEPTEMBERDO .	452.7	216.8	89.9	22.8	6.4	73.5	33.5	9.9
OCTOBER-DECEMBERDO .	478.7	225.2	98.1	23.5	6.8	79.1	35.7	10.4
WAGESMILLION DOLLARS .	9 202.4	4 872.3	1 704.8	465.8	106.2	1 345.4	548.6	157.3
COST OF MATERIALS, ETC., TOTAL ¹DO .	35 708.9	16 967.9	2 264.3	4 241.9	1 685.0	9 142.3	1 063.9	343.6
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMEDDO .	31 867.4	14 959.3	1 857.1	3 763.8	1 406.9	8 697.4	914.1	268.9
COST OF REALESDO .	840.1	210.6	122.6	78.2	221.7	155.4	26.7	24.9
FUELS CONSUMEDDO .	1 311.4	915.4	134.9	109.1	18.5	85.7	27.5	20.3
PURCHASED ELECTRIC ENERGYDO .	1 066.7	522.2	120.6	254.0	7.5	117.6	25.9	18.8
CONTRACT WORKDO .	623.3	360.4	29.0	36.7	30.4	86.4	69.7	10.8
VALUE OF SHIPMENTS, INCLUDING REALES ¹DO .	58 429.7	28 652.3	5 713.9	5 964.2	2 097.2	12 862.6	2 323.6	815.7
VALUE OF REALESDO .	913.0	236.6	140.1	81.5	233.5	160.1	31.3	29.9
VALUE ADDED BY MANUFACTUREDO .	23 258.1	12 116.1	3 481.3	1 705.5	410.9	3 799.5	1 269.1	475.7
MANUFACTURERS' INVENTORIES:								
BEGINNING OF YEAR, TOTALDO .	9 175.7	5 060.0	542.3	927.5	210.1	2 081.3	198.0	104.1
FINISHED PRODUCTSDO .	2 600.0	1 467.1	197.3	250.0	64.2	594.1	46.6	23.1
WORK IN PROCESSDO .	3 106.2	1 424.8	140.3	435.3	33.4	945.6	70.7	24.6
MATERIALS, SUPPLIES, FUEL, ETC.DO .	3 379.6	2 177.0	195.7	234.1	32.5	531.6	30.4	27.2
END OF YEAR, TOTALDO .	9 699.1	5 533.4	575.1	892.5	205.9	2 180.4	211.2	100.6
FINISHED PRODUCTSDO .	2 851.6	1 645.0	210.4	220.0	91.0	618.0	44.4	22.8
WORK IN PROCESSDO .	3 434.3	1 670.6	164.7	449.3	32.8	1 010.9	79.0	27.1
MATERIALS, SUPPLIES, FUEL, ETC.DO .	3 413.2	2 217.8	200.0	223.3	82.2	551.5	87.7	50.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO .	2 240.4	1 084.3	293.4	299.6	35.5	392.6	79.3	55.8
NEW PLANT AND EQUIPMENT, TOTALDO .	2 160.6	1 058.8	279.9	292.2	34.8	371.4	73.5	50.0
NEW STRUCTURES AND ADDITIONS TO PLANTDO .	418.2	208.0	39.1	70.7	8.6	70.2	13.5	8.1
NEW MACHINERY AND EQUIPMENTDO .	1 742.5	850.8	240.8	221.5	26.2	301.2	60.0	41.9
USED PLANT AND EQUIPMENTDO .	79.8	25.5	13.5	7.4	.6	21.2	5.8	5.9

¹The value of shipments and cost of materials for industry groups 2- and 3-digit include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Blast Furnaces, Steel Works, and Rolling and Finishing Mills

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EXPLANATORY TEXT

BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3312—Blast Furnaces (Including Coke Ovens), Steel Works, and Rolling Mills***
- 3313—Electrometallurgical Products**
- 3315—Steel Wiredrawing and Steel Nails and Spikes***
- 3316—Cold Rolled Steel Sheet, Strip, and Bars***
- 3317—Steel Pipe and Tubes**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3312.—BLAST FURNACES AND STEEL MILLS (Short Title)

This industry comprises establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron, and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars, and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry. Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes are

classified in industry 3313. For a detailed list of products of industry 3312, refer to table 6A-1, product codes 33121 11 to 33121 89.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Included in this industry are all establishments engaged in the manufacture of blast furnace ferroalloys. However, establishments which manufacture ferro or nonferrous additive alloys by electrometallurgical process are classified in industry 3313, Electrometallurgical Products. Also, establishments which draw wire from purchased rod and bar; establishments which perform only cold rolling, drawing, or finishing operations; and establishments which produce welded, seamless, and heavy riveted pipe from purchased materials are not included in industry 3312, but are included in industry 3315, Steel Wire and Related Products; industry 3316, Cold Finishing of Steel Shapes; and industry 3317, Steel Pipe and Tubes, respectively.

Total cost of materials and the total value of shipments in industry 3312 include extensive duplication resulting from the use of the products of some establishments as materials by others. Some quantities of coke are transferred to blast furnaces which have no affiliated coke ovens, and considerable quantities of pig iron are transferred from blast furnaces to partially integrated mills. In addition, steel ingots, semifinished shapes, and finished shapes and forms are transferred from one establishment to another for further processing. The value of such shipments appears twice in the total value of shipments, and a corresponding duplication enters into the total cost of materials, etc. This duplication does not exist in the data on value added by manufacture.

As a means of developing a net value of shipments figure, the cost of steel shapes received by establishments in industry 3312 was collected as a separate materials consumed item, and, as shown in table 7A, totaled approximately \$2.31 billion. In addition, the cost of pig iron consumed in this industry totaled approximately \$0.50 billion. Also, a \$0.30 billion estimate of the cost of coke used as a fuel in this industry was derived from a historic analysis of fuels data. On this basis, the value of materials shipped or transferred between plants within this industry totaled approximately \$3.11 billion. Subtracting this value from the total value of shipments of approximately \$23.95 billion yields a net value, excluding duplication, of \$20.84 billion. A similar adjustment to the total cost of materials, supplies, etc., figure provides a net cost figure of \$9,483 million. Adjusting the cost of fuels on this same basis provides a net cost of fuels of \$563 million.

Based on departmental operations data, it was possible to further classify the establishments of this industry into four

*Note that the "short title" for this industry is used throughout the report.

subindustries; i.e., fully integrated establishments, partially integrated establishments with blast furnaces, partially integrated establishments without blast furnaces, and nonintegrated establishments. For purposes of this classification system, an establishment was defined as follows: Fully integrated if the establishment consisted of coke ovens, blast furnaces, steel furnaces, and rolling and finishing mills; partially integrated establishment with blast furnaces if the establishment consisted of blast furnaces, steel furnaces, and rolling and finishing mills; partially integrated establishment without blast furnaces if the establishment consisted of steel furnaces and either rolling and finishing mills or a forging department; and nonintegrated for all other establishments including beehive coke ovens, byproduct coke ovens operated independently of blast furnaces and steel departments, merchant blast furnaces, and establishments with hot rolling and finishing operations.

In a few cases, operations which are in fact fully integrated are classified as partially integrated or nonintegrated because separate reports were collected, either because the operations are conducted in different cities or counties or the company treats the operations separately for their own administrative reasons. The subindustry data shown in tables 1, 2, and 4 are based on this system of classification.

The 1972 census obtained data on shipments of steel mill shapes at broad product class levels only. This is the source of the data in table 6A-1 described "As reported in census of manufactures." More detailed product data were obtained on Annual Survey Form MA-33B, and published in Current Industrial Reports, series MA-33B, Steel Mill Products. These data are shown in tables 6A-2, 6A-3, and 6A-4.

Annual Survey Form MA-33B obtained data on the total production of steel at three broad levels of output: Ingots; semifinished shapes and forms (blooms, billets, wire rods, skelp, etc.); and finished mill shapes and forms. For each of these groups, the steel mills were requested to report production in the form in which the shape (a) passed from one group to the next, (b) was shipped from the establishment, or (c) was consumed in the establishment in the manufacture of fabricated products. The production figures shown in tables 6A-2 and 6A-3 include data on production derived from this method of reporting. Production figures shown for ingots represent the total production of ingots. Production figures shown for finished shapes and forms are the tonnages of these shapes produced at the steel mill for shipments (either outside the steel industry or to other steel mills) or for consumption in the manufacture of fabricated products. The production of all semifinished shapes and forms combined represent total production of semifinished shapes and forms for sale and transfer and also for use in the same plant in the manufacture of either other steel mill shapes or fabricated products.

Net shipments of steel products (as derived from Survey Form MA-33B) including both the shipments to establish-

ments outside the steel industry and the amounts consumed in the steel mills in the production of fabricated products and for maintenance, repair, and operating supplies, are shown in table 6A-4.

The figures on steel mill shapes shown in tables 6A-1 to 6A-4 include the manufacture of these products in separate cold rolling and drawing establishments, wiredrawing plants, and pipe mills as well as steel mills. The receipts of steel at these plants have been taken into account in deriving the net shipment figures shown in table 6A-4.

While the primary products of the industry include a broad range of products, the establishments tend to group themselves into specific product classes within the industry. The extent of this specialization is indicated in table 5A.

Data on shipments of pig iron, by grade, are published by the Bureau of Mines in its Minerals Yearbook. These data are reprinted in table 6A-5 and differ from the data reported in the census in that they include the tonnages of pig iron produced and consumed in the same establishment. Other differences of minor consequence also exist.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3312, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3313.—ELECTROMETALLURGICAL PRODUCTS

This industry comprises establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical or metallothermic processes, including high percentage ferroalloys and high percentage nonferrous additive alloys. For a detailed list of products of industry 3313, refer to table 6A, product codes 33131 11 to 33134 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Electrometallurgical Products Industry in 1972 totaled \$550 million. This included shipments of electrometallurgical products (primary products) valued at \$518 million.

Shipments of electrometallurgical products (primary products) in 1972 represented 85 to 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 85 to 90 percent.

Shipments of electrometallurgical products (primary products) from establishments classified in industry 3313 in 1972 represented 87 percent (coverage ratio) of these products valued at \$594 million shipped by all industries. In 1967, the coverage ratio was 82 percent. Other industries shipping electrometallurgical products consisted mainly of industry 3312, Blast Furnaces and Steel Mills, (\$42 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3313, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3315.—STEEL WIRE AND RELATED PRODUCTS (Short Title)

This industry comprises establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire, and which may be engaged in the further manufacture of products made from wire. Establishments primarily engaged in manufacturing steel nails and spikes from purchased materials are also included in this industry. Rolling mills engaged in the production of ferrous wire from wire rods or hot rolled bars produced in the same establishment are classified in industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in SIC group 335. For a detailed list of products of industry 3315, refer to table 6A, product codes 33151 11 to 33159 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Steel Wire and Related Products Industry in 1972 totaled \$1,240 million. This included shipments of steel wire and related products (primary products) valued at \$1,095 million, shipments of other products (secondary products) valued at \$66 million, and miscellaneous receipts (mainly receipts for resales) of \$80 million.

Shipments of steel wire and related products (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent.

Shipments of steel wire and related products (primary products) from establishments classified in industry 3315 in 1972 represented 42 percent (coverage ratio) of these products valued at \$2,600 million shipped by all industries. In 1967, the coverage ratio was 37 percent. Other industries shipping steel wire and related products consisted mainly of industry 3312,

Blast Furnaces and Steel Mills, (\$779 million); and industry 3496, Miscellaneous Fabricated Wire Products (\$703 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3315, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3316.—COLD FINISHING OF STEEL SHAPES (Short Title)

This industry comprises establishments primarily engaged in (1) cold rolling steel sheets and strip from purchased hot rolled sheets; (2) cold drawing steel bars and steel shapes from purchased hot rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot rolled steel sheets, and further cold rolling such sheets are classified in industry 3312.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Cold Finishing of Steel Shapes Industry in 1972 totaled \$1,636 million. This included shipments of cold rolled steel shapes (primary products) valued at \$1,441 million, shipments of other products (secondary products) valued at \$148 million, and miscellaneous receipts of \$47 million.

Shipments of cold rolled sheet, strip, and bars (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent.

Shipments of cold rolled steel shapes (primary products) from establishments classified in industry 3316 in 1972 represented 29 percent (coverage ratio) of these products valued at \$4,890 million shipped by all industries. In 1967, the coverage ratio was 24 percent. Other industries shipping cold rolled sheet, strip, and bars consisted mainly of industry 3312, Blast Furnaces and Steel Mills (\$3,403 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3316, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3317.—STEEL PIPE AND TUBES

This industry comprises establishments primarily engaged in the production of welded or seamless steel pipe and tubes and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel, including steel skelp or steel blanks, tube rounds, or pierced billets, are classified in industry 3312.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Steel Pipe and Tubes Industry in 1972 totaled \$1,292 million. This included shipments of steel pipe and tubes (primary products) valued at \$1,162 million, shipments of other products (secondary products) valued at \$86 million, and miscellaneous receipts (mainly receipts for resales) of \$44 million.

Shipments of steel pipe and tubes (primary products) in

1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent.

Shipments of steel pipe and tubes (primary products) from establishments classified in industry 3317 in 1972 represented 42 percent (coverage ratio) of these products valued at \$2,766 million shipped by all industries. In 1967, the coverage ratio was 38 percent. Other industries shipping steel pipe and tubes consisted mainly of industry 3312, Blast Furnaces and Steel Mills (\$1,501 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3317, these establishments accounted for 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3312.--BLAST FURNACES AND STEEL MILLS²															
1972 Census.....	364	251	469.1	5,537.7	379.3	739.1	4,254.3	10,304.7	14,022.6	23,946.7	961.2	(NA)	4,570.7	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	482.2	4,968.9	385.0	737.0	3,743.8	9,563.1	12,263.7	21,971.3	1,005.4	26,486.7	4,240.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	526.5	5,060.3	424.7	822.5	3,854.6	9,350.5	12,381.3	21,501.6	1,329.9	25,850.4	4,377.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	537.7	5,092.9	436.4	872.5	3,925.5	9,853.2	12,686.7	22,299.0	1,574.5	24,707.1	3,863.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	533.1	4,719.7	432.9	856.7	3,628.9	9,275.8	11,679.5	21,161.1	1,794.7	22,654.5	3,663.2	(NA)	(NA)
1967 Census.....	329	259	533.1	4,385.3	434.0	845.4	3,368.4	8,910.1	10,997.9	19,620.6	1,661.0	21,524.5	3,936.6	(NA)	(NA)
1966 ASM.....	(NA)	(NA)	559.4	4,540.7	460.4	904.9	3,554.1	9,643.6	11,829.5	21,193.9	1,595.9	(NA)	3,644.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	565.4	4,431.6	464.5	912.9	3,498.5	9,379.8	11,387.3	20,841.7	1,364.0	(NA)	3,218.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	532.9	4,117.9	443.9	880.9	3,249.7	8,479.6	10,537.9	18,840.1	1,282.9	17,720.4	3,248.2	(NA)	(NA)
1963 Census.....	288	247	500.5	3,711.6	412.3	791.4	2,892.0	7,506.4	8,958.7	16,418.0	908.4	16,604.0	3,146.6	(NA)	(NA)
1962 ASM.....	(NA)	(NA)	502.2	3,612.1	406.6	764.6	2,753.2	6,620.9	8,698.8	15,571.6	707.8	15,984.4	3,179.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	503.4	3,623.2	409.1	767.6	2,670.2	6,546.3	8,529.9	14,873.3	805.5	(NA)	3,353.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	550.0	3,629.4	449.6	831.8	2,777.2	6,844.4	8,917.3	15,738.8	1,190.7	(NA)	3,058.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	507.5	3,448.4	419.4	776.5	2,636.7	6,823.4	8,533.1	15,628.7	669.3	(NA)	2,812.5	(NA)	(NA)
1958 Census.....	291	260	511.4	3,183.5	417.2	765.9	2,416.0	6,062.2	7,472.0	13,422.6	859.0	(NA)	2,997.2	(NA)	(NA)
1972 Census.....	364	251	469.1	5,537.7	379.3	739.1	4,254.3	10,304.7	14,022.6	23,946.7	961.2	(NA)	4,570.7	(NA)	(NA)
Fully integrated works	39	39	260.5	3,098.5	211.0	410.1	2,382.5	5,757.5	7,047.5	12,587.4	679.9	(NA)	2,437.4	(NA)	(NA)
Partially integrated works:															
With blast furnaces.	13	13	44.0	513.3	37.1	73.4	413.6	1,097.3	1,961.0	2,995.6	61.5	(NA)	468.9	(NA)	(NA)
Without blast furnaces.....	71	71	97.7	1,165.2	76.5	152.0	869.7	2,148.4	2,665.3	4,741.9	109.1	(NA)	909.3	(NA)	(NA)
Nonintegrated works...	241	128	66.9	760.7	54.7	103.6	588.4	1,301.5	2,348.8	3,621.8	110.7	(NA)	757.2	(NA)	(NA)
1967 Census.....	329	259	533.1	4,385.3	434.0	845.4	3,368.4	8,910.1	10,997.9	19,620.6	1,661.0	(NA)	3,936.6	(NA)	(NA)
Fully integrated works	35	35	289.8	2,386.3	237.6	459.1	1,855.7	4,912.0	4,908.9	9,656.3	936.2	(NA)	1,978.7	(NA)	(NA)
Partially integrated works:															
With blast furnaces.	11	11	54.6	451.8	44.9	89.7	342.6	1,152.7	1,173.1	2,288.9	167.4	(NA)	391.1	(NA)	(NA)
Without blast furnaces.....	78	78	116.4	964.6	93.3	183.9	729.0	1,855.4	2,184.6	4,009.2	256.5	(NA)	780.2	(NA)	(NA)
Nonintegrated works...	205	135	72.3	582.5	58.2	113.3	441.1	989.9	2,731.2	3,666.2	300.9	(NA)	786.6	(NA)	(NA)
1963 Census.....	288	247	500.6	3,711.6	412.3	791.4	2,892.0	7,506.4	8,958.7	16,418.0	908.4	(NA)	3,146.6	(NA)	(NA)
Fully integrated works	34	34	268.6	2,002.0	221.9	425.4	1,573.0	4,233.4	3,786.2	7,999.1	431.4	(NA)	1,574.9	(NA)	(NA)
Partially integrated works:															
With blast furnaces.	12	12	53.3	394.5	44.9	84.4	314.4	847.5	976.0	1,804.3	219.5	(NA)	359.6	(NA)	(NA)
Without blast furnaces.....	80	80	112.0	839.3	90.7	177.9	637.2	1,574.0	1,821.5	3,380.1	101.3	(NA)	580.7	(NA)	(NA)
Nonintegrated works...	162	121	66.6	475.9	54.8	103.7	367.4	851.5	2,375.0	3,234.5	156.2	(NA)	631.4	(NA)	(NA)
1958 Census.....	291	260	511.3	3,183.5	417.2	765.9	2,416.0	6,062.2	7,472.0	13,422.6	959.0	(NA)	2,997.2	(NA)	(NA)
Fully integrated works	37	37	272.9	1,692.8	255.6	414.6	1,312.0	3,410.5	(NA)	(NA)	446.2	(NA)	1,449.8	(NA)	(NA)
Partially integrated works.....	93	93	164.3	1,029.9	131.8	241.0	759.3	1,768.6	(NA)	(NA)	386.1	(NA)	960.4	(NA)	(NA)
Nonintegrated works...	161	130	74.3	460.7	59.8	110.3	344.6	883.2	(NA)	(NA)	117.7	(NA)	587.0	(NA)	(NA)
INDUSTRY 3313.--ELECTROMETALLURGICAL PRODUCTS															
1972 Census.....	40	31	9.5	94.1	7.8	15.1	71.7	217.2	335.4	550.1	26.3	(NA)	173.0	85-90	87
1971 ASM.....	(NA)	(NA)	10.1	93.7	8.3	16.3	70.9	243.8	340.7	554.7	34.4	564.7	178.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	10.4	92.6	8.6	17.6	72.2	199.0	331.3	519.3	28.8	569.6	140.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	10.5	87.8	8.7	18.0	68.3	231.6	355.9	582.9	24.9	522.5	125.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	10.7	84.0	8.8	18.2	63.5	197.5	295.7	486.5	32.3	536.4	118.3	(NA)	(NA)
1967 Census.....	34	31	10.4	79.0	8.4	17.2	58.6	193.2	289.9	467.9	29.3	508.8	114.0	85-90	82
1966 ASM.....	(NA)	(NA)	10.3	75.5	8.3	17.0	56.0	197.8	303.5	509.3	23.6	(NA)	105.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.9	76.7	9.0	18.5	59.3	216.8	272.4	479.0	20.7	(NA)	95.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	11.0	76.4	9.0	18.7	59.0	150.8	269.3	437.3	17.6	474.0	76.0	(NA)	(NA)
1963 Census.....	36	30	10.4	68.9	8.2	16.6	50.8	145.5	228.0	382.1	13.4	462.8	93.9	85-90	77
1962 ASM.....	(NA)	(NA)	11.0	72.4	8.3	17.5	51.5	160.9	231.5	386.4	15.9	455.3	109.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	11.1	70.3	8.4	17.0	49.0	146.9	231.6	399.6	9.0	(NA)	100.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	12.5	76.1	9.3	18.4	52.5	145.3	242.4	380.7	17.2	(NA)	126.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	13.3	80.1	10.1	20.4	56.0	184.6	266.1	456.8	14.3	(NA)	125.1	(NA)	(NA)
1958 Census.....	37	35	12.7	71.9	9.3	19.0	49.0	178.9	221.5	399.1	17.0	(NA)	130.8	91	76

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3315.--STEEL WIRE AND RELATED PRODUCTS															
1972 Census.....	290	200	30.9	291.0	24.4	50.0	204.3	589.2	664.7	1,240.4	26.9	(NA)	266.6	94	42
1971 ASM.....	(NA)	(NA)	26.2	241.4	20.6	42.8	169.8	471.4	584.7	1,058.3	30.8	473.1	226.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	28.2	236.5	22.3	45.8	170.5	443.7	557.5	985.3	34.8	472.4	214.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	28.9	229.9	23.2	52.1	160.8	501.3	542.8	1,030.2	34.5	483.4	198.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	27.9	213.9	22.2	49.6	148.2	458.4	500.6	953.7	46.6	(S)	183.6	(NA)	(NA)
1967 Census.....	240	171	27.3	194.8	21.7	44.1	138.0	385.6	467.5	845.2	56.9	(S)	162.2	90	37
1966 ASM.....	(NA)	(NA)	25.2	179.4	19.9	42.7	130.0	352.9	448.4	799.6	22.5	(NA)	147.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	24.0	165.8	18.9	39.8	118.7	332.3	422.2	750.3	20.5	(NA)	148.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	22.1	146.9	17.3	35.2	104.3	283.5	370.5	617.1	19.0	282.4	112.2	(NA)	(NA)
1963 Census.....	200	133	21.3	134.6	16.9	34.4	97.1	253.0	336.7	592.3	14.0	265.1	110.4	89	30
1962 ASM.....	(NA)	(NA)	19.8	126.5	15.5	30.8	90.6	224.7	296.1	517.2	14.9	250.0	102.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	19.8	121.9	15.5	30.7	87.3	221.3	283.0	500.3	12.4	(NA)	101.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	20.6	122.1	16.7	31.9	86.9	218.5	284.7	498.3	12.8	(NA)	95.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	21.0	125.0	16.8	32.6	90.1	234.4	304.2	536.2	11.3	(NA)	91.8	(NA)	(NA)
1958 Census.....	170	103	19.2	110.2	15.1	29.1	78.4	196.2	260.5	452.1	12.0	(NA)	90.0	88	26
INDUSTRY 3316.--COLD FINISHING OF STEEL SHAPES															
1972 Census.....	125	93	20.1	223.3	15.6	31.8	162.3	504.6	1,144.2	1,635.7	20.6	(NA)	289.4	91	29
1971 ASM.....	(NA)	(NA)	16.1	159.0	12.0	23.4	108.7	273.8	816.7	1,110.1	22.7	516.9	226.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	18.4	166.9	13.7	26.6	112.8	374.4	822.9	1,136.3	40.1	700.9	276.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	19.8	185.8	15.0	31.8	129.4	351.7	928.0	1,275.3	33.4	677.6	219.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	19.6	166.2	14.8	30.5	119.5	322.9	799.4	1,112.6	39.9	(S)	202.8	(NA)	(NA)
1967 Census.....	107	86	19.5	154.9	14.9	29.8	108.8	269.1	777.5	1,038.7	126.0	(S)	188.4	89	24
1966 ASM.....	(NA)	(NA)	17.0	135.7	13.3	28.1	99.1	306.6	673.8	975.7	22.5	(NA)	142.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	16.0	124.4	12.5	26.4	92.7	285.7	634.7	917.7	20.8	(NA)	138.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	14.2	108.3	10.9	23.7	79.3	222.8	583.0	798.1	11.8	267.9	130.0	(NA)	(NA)
1963 Census.....	81	68	13.7	99.6	10.6	21.8	71.5	224.0	530.0	751.6	14.9	254.4	109.4	94	20
1962 ASM.....	(NA)	(NA)	12.0	87.5	9.3	19.3	65.8	194.2	495.8	690.2	*14.0	238.1	108.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	11.4	79.6	8.8	17.7	58.4	158.1	439.8	597.6	12.8	(NA)	112.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	12.4	83.2	9.8	19.3	62.2	173.5	472.2	634.9	*13.1	(NA)	96.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	12.1	82.2	9.4	18.6	58.6	191.2	451.6	645.6	10.2	(NA)	82.4	(NA)	(NA)
1958 Census.....	78	63	10.9	67.1	8.5	16.0	47.2	141.5	338.5	477.8	25.7	(NA)	91.3	95	18
INDUSTRY 3317.--STEEL PIPE AND TUBES															
1972 Census.....	152	122	23.6	245.5	18.8	39.0	181.8	509.4	804.8	1,292.1	24.1	(NA)	235.2	93	42
1971 ASM.....	(NA)	(NA)	21.5	204.9	16.9	34.1	145.5	426.3	671.9	1,095.9	17.6	445.6	218.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	23.4	206.6	18.3	36.8	148.5	420.4	633.1	1,048.5	32.8	457.1	193.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	27.4	236.4	21.9	45.3	174.3	428.1	807.5	1,226.0	36.4	488.4	210.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	26.5	216.1	21.4	44.0	160.5	419.1	788.6	1,193.9	43.4	456.7	214.6	(NA)	(NA)
1967 Census.....	151	126	27.0	207.9	21.8	45.1	155.4	412.1	754.4	1,148.6	37.8	428.6	205.6	89	38
1966 ASM.....	(NA)	(NA)	26.0	194.7	20.9	44.7	144.4	416.5	668.6	1,072.3	28.0	(NA)	180.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	24.7	175.2	19.6	41.4	129.3	379.8	612.4	976.3	26.3	(NA)	165.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	23.4	164.6	18.7	39.9	121.4	293.2	580.7	903.3	*31.5	373.1	145.1	(NA)	(NA)
1963 Census.....	141	115	22.9	153.1	18.3	37.9	113.7	295.2	517.3	809.0	23.6	343.1	152.0	91	37
1962 ASM.....	(NA)	(NA)	25.0	163.5	19.5	39.0	116.2	311.1	582.4	907.5	26.0	318.9	179.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	24.8	156.4	19.6	38.6	112.4	290.3	548.4	825.6	*25.8	(NA)	183.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	26.2	160.0	20.9	40.6	114.7	322.2	588.4	886.9	22.3	(NA)	164.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	25.6	161.8	20.4	40.8	117.1	366.4	625.8	981.5	18.4	(NA)	143.5	(NA)	(NA)
1958 ASM.....	136	101	23.9	138.1	19.4	38.0	103.8	284.1	496.1	780.7	15.1	(NA)	136.9	92	40

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3312	Industry 3313	Industry 3315	Industry 3316	Industry 3317
1972.....	245	27	235	86	115
1967.....	200	21	200	77	123
1963.....	161	20	171	59	114

(NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²The value of shipments and cost of materials for this industry contain extensive duplication arising from shipments between establishments in the same industry classification.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3312.--BLAST FURNACES AND STEEL MILLS											
1972 Census.....	11,805	(NA)	81	1,949	5.76	0.59	0.82	(NA)	21,967	54	13.94
1971 ASM.....	10,305	55,136	80	1,917	5.07	.56	.78	1.21	19,832	52	12.96
1970 ASM.....	9,611	49,099	81	1,937	4.69	.58	.81	1.20	17,760	54	11.37
1969 ASM.....	9,472	45,950	81	1,999	4.50	.57	.80	1.11	18,325	52	11.29
1968 ASM.....	8,853	42,496	81	1,979	4.24	.55	.77	1.07	17,400	51	10.83
1967 Census.....	8,226	40,376	81	1,949	3.98	.56	.78	1.10	16,714	49	10.54
1966 ASM.....	8,117	(NA)	82	1,966	3.93	.56	.77	(NA)	17,239	47	10.66
1965 ASM.....	7,839	(NA)	82	1,965	3.83	.55	.76	(NA)	16,591	47	10.27
1964 ASM.....	7,728	33,253	83	1,985	3.69	.56	.78	.94	15,913	49	9.63
1963 Census.....	7,415	33,174	82	1,919	3.65	.55	.77	1.01	14,998	49	9.48
1962 ASM.....	7,192	31,829	81	1,880	3.60	.56	.79	1.03	13,184	55	8.66
1961 ASM.....	6,999	(NA)	81	1,876	3.48	.57	.81	(NA)	13,004	54	8.53
1960 ASM.....	6,599	(NA)	82	1,850	3.34	.57	.80	(NA)	12,445	53	8.23
1959 ASM.....	6,794	(NA)	83	1,852	3.40	.55	.77	(NA)	13,444	51	8.79
1958 Census.....	6,225	(NA)	82	1,836	3.15	.56	.79	(NA)	11,854	53	7.91
1972 Census.....	11,805	(NA)	81	1,949	5.76	.59	.82	(NA)	21,967	54	13.94
Fully integrated works.	11,894	(NA)	81	1,944	5.81	.56	.81	(NA)	22,102	54	14.04
Partially integrated works:											
With blast furnaces..	11,666	(NA)	84	1,987	5.63	.65	.83	(NA)	24,939	47	14.95
Without blast furnaces	11,926	(NA)	78	1,987	5.72	.56	.81	(NA)	21,990	54	14.13
Nonintegrated works....	11,371	(NA)	82	1,894	5.68	.65	.78	(NA)	19,454	58	12.56
1967 Census.....	8,226	40,376	81	1,949	3.98	.56	.78	1.10	16,714	49	10.54
Fully integrated works.	8,234	(NA)	82	1,932	4.04	.51	.76	(NA)	16,950	49	10.70
Partially integrated works:											
With blast furnaces..	8,275	(NA)	82	1,998	3.82	.51	.71	(NA)	21,112	39	12.85
Without blast furnaces	8,287	(NA)	80	1,971	3.96	.54	.79	(NA)	15,940	52	10.09
Nonintegrated works....	8,057	(NA)	80	1,947	3.89	.74	.90	(NA)	13,692	59	8.74
1963 Census.....	7,415	33,174	82	1,919	3.65	.55	.77	1.01	14,998	49	9.48
Fully integrated works.	7,453	(NA)	83	1,917	3.70	.47	.72	(NA)	15,761	47	9.95
Partially integrated works:											
With blast furnaces..	7,402	(NA)	84	1,880	3.73	.54	.76	(NA)	15,901	47	10.04
Without blast furnaces	7,494	(NA)	81	1,961	3.58	.54	.79	(NA)	14,054	53	8.85
Nonintegrated works....	7,146	(NA)	94	1,892	3.54	.773	.88	(NA)	12,785	56	8.21
1958 Census.....	6,225	(NA)	82	1,836	3.15	.56	.79	(NA)	11,854	53	7.91
Fully integrated works.	6,203	(NA)	94	1,622	3.16	(NA)	(NA)	(NA)	12,497	50	8.22
Partially integrated works.....	6,268	(NA)	80	1,829	3.15	(NA)	(NA)	(NA)	11,887	52	7.34
Nonintegrated works....	6,201	(NA)	80	1,844	3.12	(NA)	(NA)	(NA)	11,887	52	8.00
INDUSTRY 3313.--ELECTROMETALLURGICAL PRODUCTS											
1972 Census.....	9,905	(NA)	82	1,936	4.75	.61	.78	(NA)	22,863	43	14.38
1971 ASM.....	9,277	55,911	82	1,964	4.30	.61	.78	1.02	24,139	38	14.96
1970 ASM.....	8,904	54,769	82	2,047	4.10	.64	.82	1.10	19,135	47	11.31
1969 ASM.....	8,362	49,762	83	2,069	3.79	.61	.76	.90	22,057	38	12.87
1968 ASM.....	7,850	50,130	82	2,068	3.49	.61	.78	1.10	18,458	43	10.85
1967 Census.....	7,596	48,923	81	2,048	3.41	.62	.79	1.09	18,577	41	11.23
1966 ASM.....	7,356	(NA)	81	2,035	3.30	.60	.74	(NA)	19,261	38	11.65
1965 ASM.....	7,061	(NA)	83	2,063	3.21	.57	.73	(NA)	19,948	35	11.71
1964 ASM.....	6,948	43,091	82	2,079	3.15	.62	.79	1.08	13,716	51	8.05
1963 Census.....	6,600	44,500	78	2,031	3.07	.60	.78	1.21	13,941	47	8.78
1962 ASM.....	6,614	41,391	76	2,096	2.95	.60	.79	1.18	14,688	45	9.20
1961 ASM.....	6,344	(NA)	76	2,013	2.89	.58	.76	(NA)	13,263	48	8.66
1960 ASM.....	6,064	(NA)	74	1,975	2.86	.64	.84	(NA)	11,581	52	7.90
1959 ASM.....	6,004	(NA)	76	2,026	2.74	.58	.76	(NA)	13,842	43	9.04
1958 Census.....	5,665	(NA)	73	2,038	2.58	.55	.74	(NA)	14,097	40	9.43

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued
(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3315.--STEEL WIRE AND RELATED PRODUCTS											
1972 Census.....	9,417	(NA)	79	2,049	4.09	.54	.77	(NA)	19,068	49	11.78
1971 ASM.....	9,214	18,057	79	2,078	3.97	.55	.78	.45	17,992	51	11.01
1970 ASM.....	8,387	16,751	79	2,054	3.72	.57	.81	.48	15,734	53	9.69
1969 ASM.....	7,955	16,727	80	2,246	3.09	.53	.75	.47	17,346	46	9.62
1968 ASM.....	7,667	(S)	80	2,234	2.99	.52	.75	(S)	16,430	47	9.24
1967 Census.....	7,136	(S)	79	2,032	3.13	.55	.78	(S)	14,124	51	8.74
1966 ASM.....	7,128	(NA)	79	2,144	3.04	.56	.79	(NA)	14,023	51	8.26
1965 ASM.....	6,909	(NA)	79	2,108	2.98	.56	.78	(NA)	13,846	50	8.35
1964 ASM.....	6,645	12,778	78	2,034	2.96	.57	.80	.44	12,827	52	8.06
1963 Census.....	6,327	12,446	79	2,033	2.82	.57	.80	.45	11,890	53	7.36
1962 ASM.....	6,378	12,626	78	1,991	2.94	.57	.82	.48	11,333	56	7.28
1961 ASM.....	6,158	(NA)	78	1,984	2.84	.57	.81	(NA)	11,178	55	7.21
1960 ASM.....	5,935	(NA)	81	1,910	2.72	.57	.82	(NA)	10,623	56	6.84
1959 ASM.....	5,959	(NA)	80	1,945	2.76	.57	.80	(NA)	11,176	53	7.19
1958 Census.....	5,724	(NA)	79	1,927	2.69	.58	.82	(NA)	10,192	56	6.73
INDUSTRY 3316.--COLD FINISHING OF STEEL SHAPES											
1972 Census.....	11,109	(NA)	78	2,030	5.10	.70	.84	(NA)	25,104	44	15.87
1971 ASM.....	9,876	32,106	75	1,950	4.65	.74	.88	.47	17,006	58	11.70
1970 ASM.....	9,071	38,092	75	1,942	4.24	.72	.87	.62	20,348	45	14.08
1969 ASM.....	9,384	34,222	76	2,120	4.07	.73	.87	.53	17,763	53	11.06
1968 ASM.....	8,480	(S)	76	2,061	3.92	.72	.87	(S)	16,474	52	10.59
1967 Census.....	7,944	(S)	76	2,000	3.65	.75	.90	(S)	13,800	58	9.03
1966 ASM.....	7,998	(NA)	78	2,116	3.53	.69	.83	(NA)	18,066	44	10.91
1965 ASM.....	7,767	(NA)	78	2,105	3.51	.69	.83	(NA)	17,841	44	10.82
1964 ASM.....	7,626	18,866	76	2,182	3.35	.73	.87	.34	15,692	49	9.41
1963 Census.....	7,267	18,569	78	2,055	3.28	.71	.84	.34	16,349	44	10.26
1962 ASM.....	7,278	19,842	78	2,063	3.41	.72	.85	.34	16,140	45	10.07
1961 ASM.....	6,985	(NA)	77	2,008	3.30	.74	.87	(NA)	13,875	50	8.94
1960 ASM.....	6,686	(NA)	78	1,974	3.23	.74	.87	(NA)	13,947	48	9.01
1959 ASM.....	6,815	(NA)	78	1,983	3.15	.70	.83	(NA)	15,856	43	10.27
1958 Census.....	6,130	(NA)	78	1,881	2.94	.71	.85	(NA)	12,932	47	8.82
INDUSTRY 3317.--STEEL PIPE AND TUBES											
1972 Census.....	10,403	(NA)	80	2,074	4.66	.62	.81	(NA)	21,585	48	13.06
1971 ASM.....	9,530	20,726	79	2,018	4.27	.61	.80	.41	19,828	48	12.50
1970 ASM.....	8,829	19,534	78	2,011	4.04	.60	.80	.44	17,966	49	11.42
1969 ASM.....	8,628	17,825	80	2,068	3.85	.66	.85	.40	15,624	55	9.45
1968 ASM.....	8,155	17,234	81	2,056	3.65	.66	.84	.38	15,815	52	9.52
1967 Census.....	7,700	15,874	81	2,069	3.45	.66	.84	.37	15,262	50	9.14
1966 ASM.....	7,488	(NA)	80	2,140	3.23	.62	.81	(NA)	16,023	47	9.32
1965 ASM.....	7,098	(NA)	79	2,111	3.12	.63	.81	(NA)	15,388	46	9.18
1964 ASM.....	7,022	15,944	80	2,139	3.04	.64	.83	.41	12,506	56	7.34
1963 Census.....	6,693	14,983	80	2,072	3.00	.64	.83	.42	12,903	52	7.80
1962 ASM.....	6,539	12,756	78	1,994	2.98	.64	.82	.35	12,442	53	7.98
1961 ASM.....	6,316	(NA)	79	1,963	2.92	.66	.85	(NA)	11,725	54	7.53
1960 ASM.....	6,105	(NA)	80	1,945	2.83	.66	.84	(NA)	12,294	50	7.94
1959 ASM.....	6,327	(NA)	80	2,001	2.87	.64	.80	(NA)	14,330	44	8.97
1958 Census.....	5,777	(NA)	81	1,958	2.73	.64	.81	(NA)	11,881	49	7.48

(NA) Not available. (S) Withheld because the data did not meet publication standards.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3312-- BLAST FURNACES AND STEEL MILLS													
UNITED STATES	364	251	469.1	5 537.7	379.3	739.1	4 254.3	10 304.7	14 022.6	23 946.7	961.2	533.1	8 910.1
NORTHEAST REGION	112	79	156.1	1 795.4	124.7	238.3	1 363.2	3 062.9	4 656.8	7 560.4	249.0	199.6	3 147.0
NEW ENGLAND DIVISION	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	57.2
RHODE ISLAND	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION	106	77	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	196.5	3 089.8
NEW YORK	20	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY	9	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA	77	61	134.1	1 542.9	107.7	206.5	1 179.0	2 638.8	4 109.8	6 618.1	(D)	164.9	2 660.9
NORTH CENTRAL REGION	125	88	206.6	2 512.5	170.1	337.8	1 956.2	4 924.3	6 752.2	11 506.9	503.3	217.4	3 843.0
EAST NORTH CENTRAL DIVISION	109	81	200.3	2 440.8	165.1	327.9	1 903.2	4 773.0	6 629.4	11 237.6	495.8	FF	(D)
OHIO	36	33	73.3	858.4	61.5	122.0	692.2	1 882.9	2 481.4	4 302.3	161.9	76.7	1 319.1
INDIANA	13	10	62.5	761.3	51.1	100.8	575.4	1 280.1	1 946.1	3 136.0	175.3	62.8	1 072.0
ILLINOIS	38	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	43.9	748.1
MICHIGAN	18	8	19.7	280.1	16.1	32.5	219.9	638.0	937.4	1 570.6	89.0	22.3	470.8
WISCONSIN	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION	16	7	6.3	71.7	5.0	9.9	53.0	151.3	122.8	269.3	7.4	FF	(D)
MINNESOTA	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION	80	56	77.7	891.4	62.8	121.1	677.4	1 758.7	1 835.2	3 558.6	152.9	84.1	1 401.9
SOUTH ATLANTIC DIVISION	31	21	41.4	488.4	33.4	64.8	368.3	922.8	898.0	1 804.8	(D)	45.7	727.7
DELAWARE	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
VIRGINIA	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST VIRGINIA	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CAROLINA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH CAROLINA	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION	29	25	25.8	296.7	21.3	41.1	233.2	561.9	686.0	1 228.3	30.3	29.5	499.8
KENTUCKY	7	6	6.1	78.6	5.0	9.9	61.0	167.0	194.5	360.6	2.8	FF	(D)
TENNESSEE	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	14.6
ALABAMA	15	13	17.8	203.9	14.8	27.9	160.2	375.7	469.0	826.0	25.7	20.9	352.3
MISSISSIPPI	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION	20	10	10.5	106.3	8.1	15.2	75.9	274.1	251.1	525.5	(D)	FF	(D)
ARKANSAS	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS	17	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST REGION	47	28	28.8	338.9	21.7	41.9	257.9	559.5	779.1	1 322.0	56.3	31.9	518.2
MOUNTAIN DIVISION	10	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
COLORADO	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
UTAH	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PACIFIC DIVISION	37	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON	4	3	1.6	17.6	1.2	2.3	12.6	37.5	25.8	62.8	(D)	EE	(D)
OREGON	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA	28	18	15.5	179.0	11.2	20.8	132.1	247.0	482.0	708.3	23.2	FF	(D)
HAWAII	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3312-13 PART. INTEG. W/O BL. FURNACES													
DELAWARE	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
HAWAII	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3312-14 NONINTEGRATED													
NORTHEAST REGION	73	40	25.8	290.5	20.9	39.2	221.6	421.5	600.7	1 006.3	(D)	27.7	424.8
MIDDLE ATLANTIC DIVISION	69	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	15	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	46	30	23.1	259.4	18.7	34.8	198.4	369.5	483.2	840.3	(D)	(NA)	(NA)
NORTH CENTRAL REGION	84	47	21.6	252.5	17.6	34.8	195.3	488.8	1 100.3	1 588.7	(D)	32.8	412.9
EAST NORTH CENTRAL DIVISION	69	41	19.4	229.2	15.8	30.9	177.2	441.9	1 056.4	1 499.3	55.0	(NA)	(NA)
OHIO	18	15	6.8	81.3	5.6	10.9	64.9	134.4	335.0	482.2	15.0	(NA)	(NA)
INDIANA	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	25	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	15	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	15	6	2.2	23.3	1.8	3.9	18.1	46.9	43.9	89.4	(D)	(NA)	(NA)
MINNESOTA	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	53	29	13.2	143.0	11.1	21.5	115.1	300.5	336.2	636.4	9.7	7.1	104.0
SOUTH ATLANTIC DIVISION	19	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3312-- BLAST FURNACES, STEEL MILLS--CON.													
3312-14 NONINTEGRATED--CONTINUED													
SOUTH REGION--CONTINUED													
EAST SOUTH CENTRAL DIVISION. . .	20	16	9.7	109.8	8.3	15.9	89.6	205.0	230.2	432.9	(D)	(NA)	(NA)
KENTUCKY	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	10	8	4.3	47.0	3.6	7.3	40.1	69.0	77.2	146.0	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	14	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	36	17	6.5	76.8	5.2	8.5	58.0	93.6	315.5	397.2	8.4	4.8	48.3
PACIFIC DIVISION	28	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	25	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3313-- ELECTROMETALLURGICAL PRODUCTS													
UNITED STATES.	40	31	9.5	94.1	7.8	15.1	71.7	217.2	335.4	550.1	26.3	10.4	193.2
NORTHEAST REGION	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION	13	10	4.3	42.9	3.5	6.4	32.2	90.9	135.9	227.5	8.9	4.4	88.2
EAST NORTH CENTRAL DIVISION. . .	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO	10	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	73.7
WEST NORTH CENTRAL DIVISION. . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
IOWA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
SOUTH REGION	15	14	4.1	39.9	3.4	6.9	31.1	99.2	147.4	243.3	14.9	3.7	61.8
SOUTH ATLANTIC DIVISION.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION. . .	8	8	2.0	19.5	1.7	3.4	15.7	60.3	79.8	136.1	(D)	1.8	35.4
KENTUCKY	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE	3	3	.7	6.4	.6	1.2	4.9	12.8	19.1	35.0	(D)	CC	(D)
ALABAMA	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
OREGON	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3315-- STEEL WIRE AND RELATED PRODUCTS													
UNITED STATES.	290	200	30.9	291.0	24.4	50.0	204.3	589.2	664.7	1 240.4	26.9	27.3	385.6
NORTHEAST REGION	101	61	11.1	103.0	8.5	16.7	71.2	217.9	198.7	412.4	8.3	11.4	155.7
NEW ENGLAND DIVISION	38	26	5.1	46.9	4.1	8.3	33.4	95.1	78.2	170.0	3.0	5.7	79.6
MASSACHUSETTS E1	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
RHODE ISLAND	20	13	2.1	19.6	1.7	3.4	14.1	36.5	28.7	63.5	.8	3.0	37.1
CONNECTICUT	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT	10	8	1.4	13.6	1.0	2.1	9.6	30.3	28.9	58.0	1.1	1.3	22.1
MIDDLE ATLANTIC DIVISION	63	35	6.0	56.1	4.4	8.4	37.9	122.8	120.5	242.4	5.3	5.7	76.1
NEW YORK E2	21	6	.4	3.7	.4	.8	2.8	6.9	9.3	16.1	.9	1.1	12.9
NEW JERSEY	17	10	1.1	11.1	.8	1.6	7.0	25.9	29.5	55.8	1.6	1.6	10.5
PENNSYLVANIA	25	19	4.4	41.3	3.3	6.1	28.1	89.9	81.7	170.5	2.9	3.0	44.7
NORTH CENTRAL REGION	85	65	11.7	118.1	9.3	19.1	82.9	229.1	221.2	448.7	10.5	11.4	203.5
EAST NORTH CENTRAL DIVISION. . .	73	55	10.2	104.1	8.0	16.6	73.3	198.2	195.3	392.9	8.4	13.4	249.9
OHIO	21	18	2.7	25.8	2.4	4.8	20.5	60.2	62.9	124.9	2.2	5.0	145.6
INDIANA	4	4	1.0	10.7	.7	1.7	7.5	20.7	26.9	47.3	.6	1.1	15.6
ILLINOIS E1	33	24	3.9	41.0	3.1	6.2	27.3	69.4	62.2	131.0	3.8	4.8	57.3
MICHIGAN	10	5	1.7	19.0	1.3	2.7	12.9	32.2	32.9	64.5	1.6	EE	(D)
WISCONSIN	5	4	.8	7.6	.5	1.2	5.0	15.7	10.4	25.1	.2	CC	(D)
WEST NORTH CENTRAL DIVISION. . .	12	10	1.6	14.0	1.2	2.5	9.6	30.9	25.9	55.8	2.1	1.2	21.8
MINNESOTA	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSOURI	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	71	55	6.2	49.4	5.0	10.9	36.1	95.5	182.1	272.9	6.7	3.1	44.1
SOUTH ATLANTIC DIVISION.	30	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	29.0
DELAWARE	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MARYLAND	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	13.6
NORTH CAROLINA	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION. . E1	16	13	2.3	18.1	1.9	4.2	13.2	26.0	52.4	77.2	(D)	.9	8.5
KENTUCKY	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE E4	4	4	.8	6.7	.7	1.4	4.3	11.8	19.7	31.2	.8	(NA)	(NA)
ALABAMA	7	5	1.1	8.1	.9	2.0	6.5	7.9	24.2	30.9	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . E1	25	15	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	6.6
LOUISIANA E1	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	18	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	33	19	2.0	20.4	1.5	3.2	14.1	46.6	62.7	106.4	1.4	1.4	24.9
PACIFIC DIVISION	30	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	25	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	23.2

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3316-- COLD FINISHING OF STEEL SHAPES													
UNITED STATES.	125	93	20.1	223.3	15.6	31.8	162.3	504.6	1 144.2	1 635.7	20.6	19.5	269.1
NORTHEAST REGION	41	35	9.3	99.4	7.3	14.9	75.4	235.2	386.3	618.3	13.1	FF	(D)
NEW ENGLAND DIVISION	14	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS.	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT.	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION	27	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	18.4
NEW JERSEY	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	12.4
PENNSYLVANIA	16	14	5.5	56.0	4.5	8.9	45.5	149.2	247.2	393.6	5.8	FF	(D)
NORTH CENTRAL REGION	59	45	9.6	111.2	7.3	15.0	78.9	241.2	690.2	921.1	6.6	9.7	143.7
EAST NORTH CENTRAL DIVISION.	58	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.7	143.7
OHIO	20	17	3.9	43.1	3.0	5.8	31.4	105.7	211.0	310.7	1.9	4.9	82.9
INDIANA	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	9.7
MICHIGAN	19	14	3.0	37.3	2.3	4.9	26.6	64.1	291.8	352.9	2.9	2.6	30.0
SOUTH REGION	10	5	.7	6.7	.5	1.0	4.3	16.0	29.6	45.6	.4	.4	5.8
SOUTH ATLANTIC DIVISION.	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MARYLAND	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION.	4	3	.4	3.7	.3	.5	2.6	8.2	17.2	24.9	.4	(NA)	(NA)
ALABAMA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	15	8	.6	6.0	.5	.9	3.7	12.2	38.0	50.7	.4	AA	(D)
PACIFIC DIVISION	15	8	.6	6.0	.5	.9	3.7	12.2	38.0	50.7	.4	AA	(D)
CALIFORNIA	13	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3317-- STEEL PIPE AND TUBES													
UNITED STATES.	152	122	23.6	245.5	18.8	39.0	181.8	509.4	804.8	1 291.1	24.1	27.0	412.1
NORTHEAST REGION	46	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.0	125.2
MIDDLE ATLANTIC DIVISION	43	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	15.4
PENNSYLVANIA	26	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	82.9
NORTH CENTRAL REGION	56	47	11.0	119.8	8.7	17.9	89.2	240.3	410.0	632.8	12.2	10.9	160.3
EAST NORTH CENTRAL DIVISION.	52	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO	17	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.0	69.9
INDIANA	3	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS	12	10	1.4	15.6	1.1	2.4	11.5	41.9	74.1	116.1	3.4	CC	(D)
MICHIGAN	15	11	2.2	25.7	1.7	3.6	18.4	42.0	48.2	89.5	4.1	1.8	32.2
WISCONSIN.	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION.	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MINNESOTA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
IOWA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION	33	25	4.6	42.2	3.7	7.7	31.0	95.6	137.1	229.3	4.3	4.7	59.5
SOUTH ATLANTIC DIVISION.	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
GEORGIA.	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	9	9	1.9	14.4	1.6	3.4	11.1	37.6	29.0	65.1	1.2	EE	(D)
KENTUCKY	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION.	16	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
LOUISIANA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS.	11	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	17	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	67.1
PACIFIC DIVISION	15	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA	14	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

(See appendix, Explanation of Terms)

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3312-- BLAST FURNACES AND STEEL MILLS											
ESTABLISHMENTS, TOTAL.	364	469.1	5 537.7	379.3	739.1	4 254.3	10 304.7	14 022.6	23 946.7	961.2	4 570.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	56	.1	.9	.1	.2	.7	2.1	2.4	4.5	2.1	.8
5 TO 9 EMPLOYEES E7	29	.2	1.7	.2	.3	1.3	2.1	3.9	6.5	.3	1.2
10 TO 19 EMPLOYEES E6	28	.4	3.0	.3	.6	2.3	6.2	6.7	12.8	.6	2.2
20 TO 49 EMPLOYEES E1	23	.6	5.8	.6	.9	4.0	24.9	49.6	75.0	3.6	8.1
50 TO 99 EMPLOYEES	19	1.4	14.7	1.1	2.4	10.8	27.3	69.1	93.0	5.0	17.5
100 TO 249 EMPLOYEES	36	6.2	63.3	5.1	10.3	48.8	128.7	235.6	368.1	7.0	67.5
250 TO 499 EMPLOYEES	41	15.2	168.4	12.6	25.4	133.7	330.0	455.7	784.6	15.8	128.3
500 TO 999 EMPLOYEES	38	27.9	309.5	22.2	43.7	236.2	597.4	790.6	1 365.8	42.2	305.4
1,000 TO 2,499 EMPLOYEES	35	58.3	681.8	46.9	90.9	525.1	1 055.7	1 672.8	2 690.5	159.1	598.3
2,500 EMPLOYEES OR MORE.	59	358.8	4 288.6	290.2	564.6	3 291.4	8 130.3	10 736.2	18 546.0	725.7	3 441.3
ESTABS. COVERED BY ADMIN. RECORD ¹ .	55	.2	1.9	.2	.3	1.4	3.8	5.2	8.9	.5	1.8
3312-11 FULLY INTEGRATED											
ESTABLISHMENTS, TOTAL.	39	260.5	3 098.5	211.0	410.1	2 382.5	5 757.5	7 047.5	12 587.4	679.9	2 437.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
50 TO 99 EMPLOYEES	1	.7	7.1	.6	1.2	6.2	23.5	35.7	58.6	1.3	5.6
100 TO 249 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	2	259.8	3 091.5	210.3	408.8	2 376.3	5 734.0	7 011.8	12 529.0	678.5	2 431.7
2,500 EMPLOYEES OR MORE.	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312-12 PARTIALLY INTE. W. BL. FURNACES											
ESTABLISHMENTS, TOTAL.	13	44.0	513.3	37.1	73.4	413.6	1 097.3	1 961.0	2 995.6	61.5	468.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
250 TO 499 EMPLOYEES	1	44.0	513.3	37.1	73.4	413.6	1 097.3	1 961.0	2 995.6	61.5	468.9
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE.	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312-13 PART. INTEG. W/O BL. FURNACES											
ESTABLISHMENTS, TOTAL.	71	97.7	1 165.2	76.5	152.0	869.7	2 148.4	2 665.3	4 741.9	109.1	909.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
100 TO 249 EMPLOYEES	7	5.9	66.9	4.9	10.5	52.3	122.9	139.2	258.1	6.6	46.2
250 TO 499 EMPLOYEES	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	21	15.0	167.5	11.8	23.5	126.3	295.0	332.5	617.8	23.1	146.4
1,000 TO 2,499 EMPLOYEES	17	24.7	295.7	19.0	39.0	222.5	479.3	572.3	1 028.9	19.2	237.3
2,500 EMPLOYEES OR MORE.	13	52.1	635.1	40.8	79.1	468.6	1 251.2	1 621.3	2 837.1	60.2	479.3
3312-14 NONINTEGRATED											
ESTABLISHMENTS, TOTAL.	241	66.9	760.7	54.7	103.6	588.4	1 301.5	2 348.8	3 621.8	110.7	755.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	56	.1	.9	.1	.2	.7	2.1	2.4	4.5	2.1	.8
5 TO 9 EMPLOYEES E7	29	.2	1.7	.2	.3	1.3	2.1	3.9	6.5	.3	1.2
10 TO 19 EMPLOYEES E6	28	.4	3.0	.3	.6	2.3	6.2	6.7	12.8	.6	2.2
20 TO 49 EMPLOYEES E2	23	2.0	19.7	1.6	3.1	13.9	49.3	107.6	154.4	8.2	26.5
50 TO 99 EMPLOYEES	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	28	4.8	49.1	3.9	7.8	37.8	98.3	187.6	289.7	5.4	57.0
250 TO 499 EMPLOYEES	26	9.7	105.6	8.1	15.5	84.2	205.8	336.0	545.3	9.3	83.0
500 TO 999 EMPLOYEES	16	11.9	131.6	9.6	18.5	101.5	287.3	439.9	714.3	18.7	150.7
1,000 TO 2,499 EMPLOYEES	13	23.3	271.2	19.1	35.2	209.4	364.3	882.6	1 252.8	49.1	285.6
2,500 EMPLOYEES OR MORE.	4	14.6	177.8	11.8	22.6	137.2	286.0	382.0	641.6	17.1	148.1
ESTABS. COVERED BY ADMIN. RECORD ¹ .	55	.2	1.9	.2	.3	1.4	3.8	5.2	8.9	.5	1.8

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3313-- ELECTROMETALLURGICAL PRODUCTS											
ESTABLISHMENTS, TOTAL.	40	9.5	94.1	7.8	15.1	71.7	217.2	335.4	550.1	26.3	173.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	7	(Z)	.3	(Z)	(Z)	.3	.7	1.2	1.8	.4	.5
5 TO 9 EMPLOYEES E1	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES E2	4	.2	1.4	.1	.2	.9	2.6	4.9	7.9	.1	2.0
20 TO 49 EMPLOYEES E3	5	.4	3.8	.3	.7	2.9	9.8	16.7	26.4	1.2	7.1
50 TO 99 EMPLOYEES E4	10	1.8	17.9	1.4	2.9	13.7	39.6	85.4	124.2	3.5	47.8
100 TO 249 EMPLOYEES E5	7	2.5	24.5	2.0	4.0	18.6	44.1	81.8	132.2	5.9	34.3
250 TO 499 EMPLOYEES E6	3	4.7	46.3	3.8	7.2	35.5	120.4	145.4	257.4	15.4	81.2
500 TO 999 EMPLOYEES E7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES E8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3315-- STEEL WIRE AND RELATED PRODUCTS											
ESTABLISHMENTS, TOTAL.	290	30.9	291.0	24.4	50.0	204.3	589.2	664.7	1 240.4	26.9	266.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	39	.1	.7	.1	.1	.5	1.2	1.8	3.3	.1	.7
5 TO 9 EMPLOYEES E0	23	.2	1.2	.1	.2	.9	2.7	4.2	7.1	.2	1.1
10 TO 19 EMPLOYEES E1	28	.4	3.5	.3	.6	2.3	8.4	8.8	17.0	1.0	2.7
20 TO 49 EMPLOYEES E2	58	1.9	15.6	1.5	3.0	10.9	36.8	55.1	91.0	2.7	16.5
50 TO 99 EMPLOYEES E3	63	4.4	38.1	3.5	7.3	27.0	94.4	145.3	237.6	4.5	37.7
100 TO 249 EMPLOYEES E4	47	7.6	70.8	6.1	12.7	51.2	141.7	184.4	321.3	5.5	68.4
250 TO 499 EMPLOYEES E5	21	7.3	67.8	5.7	11.9	47.2	119.1	142.1	256.8	6.5	63.2
500 TO 999 EMPLOYEES E6	8	5.6	57.4	4.2	8.2	36.8	118.9	93.8	209.1	4.5	45.4
1,000 TO 2,499 EMPLOYEES E7	3	3.5	35.8	2.9	5.8	27.5	66.0	29.3	97.3	1.9	30.9
ESTABS. COVERED BY ADMIN. RECORD ¹ .	40	.1	1.0	.1	.2	.7	1.8	2.2	4.0	.1	.9
3316-- COLD FINISHING OF STEEL SHAPES											
ESTABLISHMENTS, TOTAL.	125	20.1	223.3	15.6	31.8	162.3	504.6	1 144.2	1 635.7	20.6	289.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E0	13	(Z)	.2	(Z)	(Z)	.2	.5	1.0	1.4	.2	.3
5 TO 9 EMPLOYEES E1	5	(Z)	.3	(Z)	(Z)	.2	.6	.9	1.5	(Z)	.3
10 TO 19 EMPLOYEES E2	14	.2	2.0	.1	.3	1.2	10.2	12.9	22.5	.2	4.5
20 TO 49 EMPLOYEES E3	21	.7	7.1	.6	1.0	4.5	21.9	52.6	73.3	1.1	12.0
50 TO 99 EMPLOYEES E4	20	1.5	15.5	1.1	2.2	9.7	44.7	107.9	152.0	.9	30.1
100 TO 249 EMPLOYEES E5	27	4.6	50.0	3.5	7.3	35.1	108.2	242.7	351.1	7.3	66.3
250 TO 499 EMPLOYEES E6	15	5.3	57.8	4.1	8.3	41.6	147.9	284.2	427.3	6.6	77.3
500 TO 999 EMPLOYEES E7	9	7.7	90.4	6.1	12.6	69.7	170.7	441.9	606.4	4.2	98.7
1,000 TO 2,499 EMPLOYEES E8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	12	(Z)	.3	(Z)	(Z)	.2	.5	1.2	1.7	.1	.4
3317-- STEEL PIPE AND TUBES											
ESTABLISHMENTS, TOTAL.	152	23.6	245.5	18.8	39.0	181.8	509.4	804.8	1 292.1	24.1	235.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	10	(Z)	.1	(Z)	(Z)	.1	.3	.5	.9	(Z)	.2
5 TO 9 EMPLOYEES E0	9	.1	.6	.1	.1	.5	1.2	3.4	4.5	1.8	.6
10 TO 19 EMPLOYEES E1	11	.2	1.5	.1	.2	1.0	2.9	4.3	6.5	.3	1.6
20 TO 49 EMPLOYEES E2	27	1.0	8.7	.7	1.7	5.8	23.2	30.7	53.7	.9	7.7
50 TO 99 EMPLOYEES E3	26	1.8	16.9	1.5	3.1	12.5	54.2	59.6	108.5	3.5	20.7
100 TO 249 EMPLOYEES E4	34	5.4	53.5	4.3	8.9	37.9	108.2	167.6	273.3	6.3	59.0
250 TO 499 EMPLOYEES E5	26	8.5	88.3	6.9	14.4	66.9	182.1	317.2	501.5	7.8	75.9
500 TO 999 EMPLOYEES E6	8	6.6	75.9	5.2	10.6	57.3	137.2	221.5	343.3	3.5	69.5
1,000 TO 2,499 EMPLOYEES E7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	10	(Z)	.2	(Z)	(Z)	.2	.5	.8	1.3	(Z)	.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent

E3--30 to 39 percent

E5--50 to 59 percent

E7--70 to 79 percent

E9--90 to 99 percent

E2--20 to 29 percent

E4--40 to 49 percent

E6--60 to 69 percent

E8--80 to 89 percent

E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3312	BLAST FURNACES AND STEEL MILLS										
	ENTIRE INDUSTRY	364	469.1	5 537.7	379.3	739.1	4 254.3	10 304.7	14 022.6	23 946.7	961.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	324	423.8	4 988.6	342.7	668.1	3 830.7	9 458.4	13 168.7	22 240.9	922.4
33121	COKE OVEN, BLAST FURNACE PROD., INCL. FERROALLOYS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	40	20.1	210.4	17.2	32.4	169.1	380.6	969.4	1 342.4	41.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	39	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33122	STEEL INGOT AND SEMIFINISHED SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	14	18.0	212.6	14.7	28.2	164.4	396.4	984.8	1 344.4	21.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	8	5.8	68.2	4.8	9.4	55.3	155.4	206.0	351.7	3.4
33123	HOT ROLLED SHEET, STRIP, INCL. TIN-MILL PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	46	171.7	2 078.6	137.3	267.2	1 580.7	4 188.0	5 739.1	9 759.1	353.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	12	23.7	303.5	19.8	38.4	237.3	718.5	792.1	1 509.2	73.0
33124	HOT ROLLED BARS, PLATES, AND STRUCTURAL SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	86	153.1	1 761.7	124.3	239.4	1 354.4	2 935.0	3 915.8	6 754.3	353.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	43	25.2	279.0	19.7	38.5	202.8	506.4	550.0	1 053.3	54.5
33125	STEEL WIRE (PRODUCED IN STEEL MILLS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	10	8.0	100.1	6.1	12.7	73.2	173.8	107.1	279.2	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	4	.1	1.3	.1	.2	1.0	3.7	7.2	11.0	1.0
33126	STEEL PIPE AND TUBES (PRODUCED IN STEEL MILLS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	25.3	285.5	20.7	40.2	221.6	632.0	752.1	1 364.6	35.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	9	6.0	62.0	4.8	9.2	47.8	169.0	140.2	306.9	12.0
33127	COLD ROLLED STEEL SHEET, STRIP (STEEL MILLS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	11	44.8	571.9	36.8	75.4	453.5	1 132.6	1 287.6	2 374.7	120.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33128	COLD FINISHED STEEL BARS, SHAPES (STEEL MILLS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33129	PRESS, HAMMER STEEL FORGINGS (STEEL MILLS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	10	6.6	71.7	5.2	10.5	52.3	101.5	87.8	186.4	9.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312	BLAST FURNACES, STEEL MILLS, FULLY INTEGRATED										
11	ENTIRE SUBINDUSTRY	39	260.5	3 098.5	211.0	410.1	2 382.5	5 757.5	7 047.5	12 587.4	679.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	39	260.5	3 098.5	211.0	410.1	2 382.5	5 757.5	7 047.5	12 587.4	679.9
33121	COKE OVEN, BLAST FURNACE PROD., INCL. FERROALLOYS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33122	STEEL INGOT AND SEMIFINISHED SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33123	HOT ROLLED SHEET, STRIP, INCL. TIN-MILL PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	127.1	1 518.2	101.5	196.7	1 150.8	2 985.6	3 336.5	6 215.4	287.9
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33124	HOT ROLLED BARS, PLATES, AND STRUCTURAL SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	11	77.0	890.1	62.9	120.9	686.5	1 421.0	1 882.0	3 239.6	252.6
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33126	STEEL PIPE AND TUBES (PRODUCED IN STEEL MILLS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33127	COLD ROLLED STEEL SHEET, STRIP (STEEL MILLS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	35.1	453.1	28.7	58.0	357.0	878.6	903.3	1 751.8	110.1
11	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION										
3312	BLAST FURN., STEEL MILLS, PT INTEG W BL. FURN.										
12	ENTIRE SUBINDUSTRY	13	44.0	513.3	37.1	73.4	413.6	1 097.3	1 961.0	2 995.6	61.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33122	STEEL INGOT AND SEMIFINISHED SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33123	HOT ROLLED SHEET, STRIP, INCL. TIN-MILL PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	16.2	204.5	13.6	27.4	167.4	529.0	796.5	1 292.1	24.7
12	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33124	HOT ROLLED BARS, PLATES, AND STRUCTURAL SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
331212	BLAST FURNACES AND STEEL MILLS, PARTIALLY INTEGRATED WITH BLAST FURNACES--CONTINUED										
3312712	COLD ROLLED STEEL SHEET, STRIP (STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
331213	BLAST FURN., STEEL MILLS, PT INTEG W/O BL FURN										
	ENTIRE SUBINDUSTRY	71	97.7	1 165.2	76.5	152.0	869.7	2 148.4	2 665.3	4 741.9	109.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	61	80.0	932.6	62.6	122.8	693.4	1 674.0	2 314.0	3 918.2	93.5
3312213	STEEL INGOT AND SEMIFINISHED SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	6	6.8	83.2	5.2	10.1	59.7	181.7	269.3	436.1	15.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312313	HOT ROLLED SHEET, STRIP, INCL. TIN-MILL PRODUCTS										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	8	16.6	204.2	13.1	25.8	153.2	353.4	652.9	997.0	10.9
3312413	HOT ROLLED BARS, PLATES, AND STRUCTURAL SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	38	47.0	553.1	37.3	73.2	419.7	952.2	1 182.4	2 113.6	57.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	19	11.4	129.2	8.5	17.2	89.6	237.2	245.6	481.0	18.6
3312513	STEEL WIRE (PRODUCED IN STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	7.7	98.5	5.9	12.5	72.1	169.9	99.2	266.9	4.3
3312613	STEEL PIPE AND TUBES (PRODUCED IN STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312713	COLD ROLLED STEEL SHEET, STRIP (STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312813	COLD FINISHED STEEL BARS, SHAPES (STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312913	PRESS, HAMMER STEEL FORGINGS (STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	7	6.4	69.3	5.0	10.1	50.5	91.2	80.0	168.0	9.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
331214	BLAST FURNACES, STEEL MILLS, NONINTEGRATED										
	ENTIRE SUBINDUSTRY	241	66.9	760.7	54.7	103.6	588.4	1 301.5	2 348.8	3 621.8	110.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	212	41.6	469.2	34.0	65.4	361.2	956.6	1 847.1	2 767.7	87.8
3312114	COKE OVEN, BLAST FURNACE PROD., INCL. FERROALLOYS										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	35	11.8	121.9	10.1	19.3	99.2	274.0	503.9	771.6	29.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	35	11.8	121.9	10.1	19.3	99.2	274.0	503.9	771.6	29.3
3312214	STEEL INGOT AND SEMIFINISHED SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	3.4	42.2	2.8	5.5	33.1	52.2	145.6	188.1	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312314	HOT ROLLED SHEET, STRIP, INCL. TIN-MILL PRODUCTS										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	19	11.8	151.7	9.0	17.4	109.3	320.1	953.2	1 254.6	29.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	9	5.0	63.4	4.0	7.7	48.3	173.8	225.0	395.2	8.7
3312414	HOT ROLLED BARS, PLATES, AND STRUCTURAL SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	32	13.4	148.4	11.1	20.5	117.0	259.2	315.0	575.0	13.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	21	5.3	57.1	4.5	8.9	45.3	121.6	145.7	269.5	8.3
3312514	STEEL WIRE (PRODUCED IN STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	6	.2	1.6	.1	.2	1.1	3.9	8.0	12.2	1.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312614	STEEL PIPE AND TUBES (PRODUCED IN STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	10	8.3	89.4	6.6	12.3	67.4	155.5	243.7	395.8	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312714	COLD ROLLED STEEL SHEET, STRIP (STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312814	COLD FINISHED STEEL BARS, SHAPES (STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312914	PRESS, HAMMER STEEL FORGINGS (STEEL MILLS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	3	.2	2.4	.2	.4	1.8	10.2	7.8	18.4	.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	3	.2	2.4	.2	.4	1.8	10.2	7.8	18.4	.3

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3313	ELECTROMETALLURGICAL PRODUCTS										
	ENTIRE INDUSTRY	40	9.5	94.1	7.8	15.1	71.7	217.2	335.4	550.1	26.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	38	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33131	FERROMANGANESE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	.8	6.9	.6	1.3	5.4	14.1	24.5	38.5	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33132	FERROCHROME (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	2.3	22.4	1.9	3.5	17.0	50.1	80.9	130.1	9.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33133	FERROSILICON (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	12	4.7	47.1	3.8	7.6	36.5	117.9	151.1	265.9	12.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	7	.9	9.3	.8	1.6	7.0	20.6	27.1	48.7	1.6
33134	OTHER FERROALLOYS PRODUCED IN ELECTRIC FURNACES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	8	1.7	17.2	1.4	2.7	12.5	33.4	77.5	112.5	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3315	STEEL WIRE AND RELATED PRODUCTS										
	ENTIRE INDUSTRY	290	30.9	291.0	24.4	50.0	204.3	589.2	664.7	1 240.4	26.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	273	26.7	250.8	21.1	43.2	176.6	526.4	594.4	1 109.7	24.3
33151	NONINSUL. FERROUS WIRE ROPE, CABLE (WIREDRAWERS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	34	5.4	53.4	4.0	8.3	36.6	104.1	126.3	228.8	5.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	28	4.4	43.6	3.2	6.5	29.5	86.4	97.7	183.1	4.9
33152	STEEL NAILS AND SPIKES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	32	5.4	49.3	4.5	9.1	33.8	104.8	78.8	184.7	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	25	3.8	35.5	3.3	6.8	25.3	76.7	55.3	133.2	2.8
33155	STEEL WIRE, NOT PRODUCED IN STEEL MILLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	45	6.7	71.2	5.2	10.8	51.6	137.8	188.4	323.6	6.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	36	5.0	53.3	3.9	8.2	38.7	97.5	136.0	231.1	5.6
33156	FENCING, FENCE GATES, MADE IN WIREDRAWING PLANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	23	2.2	17.7	1.7	3.4	12.3	42.4	66.6	105.6	2.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	12	.9	7.1	.7	1.4	4.7	16.6	31.0	47.0	1.4
33157	FERROUS WIRE CLOTH, OTHER WOVEN WIRE (WIREDRAWERS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	6	.9	7.3	.7	1.5	5.5	16.3	16.9	31.5	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33159	OTHER FAB. FERROUS WIRE PROD. (WIREDRAWING PLANT) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	65	7.5	62.7	6.0	12.2	43.0	139.1	140.8	275.8	5.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	60	6.8	57.3	5.5	11.1	39.7	129.4	123.7	249.7	4.8
3316	COLD FINISHING OF STEEL SHAPES										
	ENTIRE INDUSTRY	125	20.1	223.3	15.6	31.8	162.3	504.6	1 144.2	1 635.7	20.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	114	18.0	200.4	13.9	28.4	144.8	473.7	1 083.6	1 541.7	19.7
33167	COLD ROLL SHEET, STRIP, NOT MADE IN STEEL MILLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	45	12.8	146.0	10.1	20.5	108.2	339.5	754.3	1 079.4	15.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	40	11.9	135.4	9.3	18.9	99.8	318.4	709.1	1 014.5	15.0
33168	COLD FINISHED STEEL BARS, SHAPES, NOT STEEL MILLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	48	6.1	64.5	4.5	9.4	44.8	146.9	368.3	512.6	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	46	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3317	STEEL PIPE AND TUBES										
	ENTIRE INDUSTRY	153	23.6	245.7	18.8	39.0	182.0	503.0	805.4	1 286.3	24.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	137	19.9	211.0	15.9	32.8	156.4	434.2	690.1	1 102.4	22.4

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3312	Blast furnaces and steel mills.....1972..	23,946.7	21,870.5	1,272.8	803.4	(¹)	25,781.6	21,870.5	3,911.1	(¹)
	.....1967..	19,620.6	17,989.5	1,001.3	629.8	(¹)	20,869.1	17,989.5	2,879.6	(¹)
3313	Electrometallurgical products.....1972..	550.1	517.7	² 32.4	(²)	(85-90)	594.4	517.7	76.7	87
	.....1967..	467.9	398.2	² 69.7	(²)	(85-90)	483.0	398.2	84.8	82
3315	Steel wire and related products.....1972..	1,240.4	1,095.3	65.6	79.5	94	2,599.8	1,095.3	1,504.5	42
	.....1967..	845.2	738.0	80.2	27.0	90	2,004.4	738.0	1,266.4	37
3316	Cold finishing of steel shapes.....1972..	1,635.7	1,440.8	147.5	47.4	91	4,889.9	1,440.8	3,449.1	29
	.....1967..	1,038.7	913.0	109.1	16.6	89	3,809.4	913.0	2,896.4	24
3317	Steel pipe and tubes.....1972..	1,292.1	1,161.7	86.1	44.3	93	2,765.5	1,161.7	1,603.8	42
	.....1967..	1,148.6	994.8	117.7	36.1	89	2,629.1	994.8	1,634.3	38

¹Value of shipments for the industry in 1972 totaled \$23,947 million. This value, however, includes duplication in that the products of some establishments are used as materials by others. (See text for fuller explanation.) Specialization ratio, computed on the basis of net value of shipments (adjusted for estimated cost of coke used as fuel), is approximately 94 percent. Although the coverage ratio would exceed 83 percent, it cannot be precisely computed. Comparable ratios for 1967 were specialization, 94 percent, and coverage, 84 percent.

²Miscellaneous receipts are included with secondary products to avoid disclosing figures for individual companies.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Blast furnaces and steel mills (SIC 3312)	Electrometallurgical products (SIC 3313)	Steel wire and related products (SIC 3315)	Cold finishing of steel shapes (SIC 3316)	Steel pipe and tubes (SIC 3317)	Other industries
	Total shipments and miscellaneous receipts	(X)	¹ 23,946.7	550.1	1,240.4	1,635.7	1,292.1	(X)
33121 pt.	Coke oven and blast furnace products, except ferroalloys..	1,459.5	1,459.5	-	-	-	-	-
33121 pt.	Blast furnaces, ferroalloys, and other additives.....	42.1	42.1					
33131	Ferromanganese.....							
33134	Other ferroalloys produced in electric and other furnaces...	252.4	-	227.6	-	-	-	24.8
33132	Ferrochrome.....	116.6	-	114.6	-	-	-	2.0
33133	Ferrosilicon.....	180.8	(under 2)	172.9	-	-	-	(5-10)
33130	Electrometallurgical products, n.s.k.....	2.5	-	2.5	-	-	-	-
33122	Steel ingot and semifinished shapes.....	2,502.9	2,500.4	-	(under 2)	(under 2)	-	(2-5)
33123	Tin mill products, hot rolled sheet and strip.....	6,510.8	6,418.9	-	-	75.0	(5-10)	(5-10)
33124	Hot rolled bars and bar shapes; plates.....	5,612.8	5,596.5	-	-	11.6	-	4.7
33125	Steel wire.....	726.3	397.6	-	295.5	14.5	-	18.7
33155								
33126								
33176	Steel pipe and tubes.....	2,765.5	1,501.0	-	(5-10)	(10-20)	1,161.7	83.8

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Blast furnaces and steel mills (SIC 3312)	Electro-metallurgical products (SIC 3313)	Steel wire and related products (SIC 3315)	Cold finishing of steel shapes (SIC 3316)	Steel pipe and tubes (SIC 3317)	Other industries
	Shipments and miscellaneous receipts--Continued							
33127	Cold rolled sheet and strip....	4,037.9	3,134.1	-	-	887.8	-	16.0
33167								
33128	Cold finished steel bars and bar shapes.....	827.6	268.7	-	(5-10)	528.6	(5-10)	(10-20)
33168								
33160	Cold finishing of steel shapes, n.s.k.....	24.4	-	-	-	24.4	-	-
33129	Press and hammer steel forgings ²	524.6	266.1	-	-	-	-	258.5
34629								
33120	Other steel mill products, except wire products.....	289.9	285.5	-	-	(2-5)	-	(2-5)
33151	Noninsulated ferrous wire rope, cable, and strand ³	366.6	72.4	-	197.9	-	-	96.3
34961		248.5	96.8	-	137.9	-	-	13.8
33152	Steel nails and spikes.....							
33156	Fencing and fence gates ³	245.6	91.4	-	80.7	-	(2-5)	(50-100)
34966								
33157	Ferrous wire cloth and other woven ferrous wire products ³ ..	128.9	21.9	-	31.7	-	-	76.4
34964								
33159	Other fabricated wire products, except springs ³	847.5	98.9	-	291.1	-	-	468.8
34969		49.5	-	-	49.5	-	-	-
33150	Steel wiredrawing, n.s.k.....							
	Other product shipments by 4-digit product group:							
2531	Public building and related furniture.....	(X)	-	-	-	-	(2-5)	(X)
2819	Industrial inorganic chemicals, n.e.c.....	(X)	(under 2)	(10-20)	-	-	-	(X)
2873	Nitrogenous fertilizers.....	(X)	6.7	-	-	-	-	(X)
3321	Gray iron foundries.....	(X)	147.5	-	-	-	(under 2)	(X)
3325	Steel foundries, n.e.c.....	(X)	24.9	-	-	-	(under 2)	(X)
3339	Primary nonferrous metals, n.e.c.....	(X)	-	(2-5)	-	-	-	(X)
3356	Nonferrous rolling and drawing, n.e.c.....	(X)	11.0	-	(under 2)	(under 2)	(10-20)	(X)
3357	Nonferrous wire drawing and insulating.....	(X)	-	-	(10-20)	-	-	(X)
3441	Fabricated structural metal..	(X)	15.0	-	-	-	(2-5)	(X)
3443	Fabricated plate work (boiler shops).....	(X)	14.7	-	-	-	(5-10)	(X)
3444	Sheet metal work.....	(X)	60.3	-	-	(under 2)	(under 2)	(X)
3446	Architectural metalwork.....	(X)	-	-	-	(5-10)	-	(X)
3449	Miscellaneous metalwork.....	(X)	87.9	-	-	-	(under 2)	(X)
3452	Bolts, nuts, rivets, and washers.....	(X)	104.7	-	(under 2)	-	-	(X)
3462	Iron and steel forgings.....	(X)	31.7	-	-	-	(under 2)	(X)
3465	Automotive stampings.....	(X)	27.1	-	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	13.3	-	(2-5)	(5-10)	(under 2)	(X)
3494	Valves and pipe fittings.....	(X)	13.6	-	-	-	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	(under 2)	-	(10-20)	-	(under 2)	(X)
3499	Fabricated metal products, n.e.c.....	(X)	107.8	-	(under 2)	-	(2-5)	(X)
3533	Oil field machinery.....	(X)	2.0	-	-	-	(under 2)	(X)
3546	Power driven handtools.....	(X)	-	-	(20-50)	-	-	(X)
3554	Paper industries machinery..	(X)	255.6	-	(2-5)	-	-	(X)
3561	Pumps and pumping equipment..	(X)	2.0	-	-	-	-	(X)
3562	Ball and roller bearings.....	(X)	14.1	-	-	-	-	(X)
3569	General industries machinery, n.e.c.....	(X)	2.0	-	-	-	-	(X)
3579	Office machines, n.e.c.....	(X)	-	-	(10-20)	-	-	(X)
3644	Noncurrent carrying wiring devices.....	(X)	11.8	-	-	-	22.6	(X)
	Miscellaneous receipts.....	(X)	803.4	(10-20)	79.5	47.4	44.3	(X)
93000	Contract work.....	(X)	255.6	(2-5)	(20-50)	20.6	1.7	(X)
99980	Other.....	(X)	402.4	(under 2)	(5-10)	21.1	16.7	(X)
99989	Resales.....	(X)	145.4	(10-20)	49.5	5.7	25.9	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of primary products			Listing of other industries with over \$2 million shipments of primary products--Continued	
3312	2865 Cyclic crudes and intermediates.....	(10-20)	3315	3499 Fabricated metal products, n.e.c.....	(2-5)
	3325 Steel foundries, n.e.c.....	(5-10)		3579 Office machines, n.e.c.....	7.3
	3334 Primary aluminum.....	(5-10)		3623 Welding apparatus, electric.....	(5-10)
	3351 Copper rolling and drawing.....	(2-5)		3644 Noncurrent-carrying wiring devices.....	(2-5)
	3441 Fabricated structural metal.....	(2-5)			
	3443 Fabricated plate work (boiler shops).....	(2-5)	3316	3357 Nonferrous wire drawing and insulating.....	(5-10)
	3444 Sheet metal work.....	(5-10)		3432 Plumbing fittings and brass goods.....	(10-20)
	3496 Miscellaneous fabricated wire products.....	(5-10)		3499 Fabricated metal products, n.e.c.....	(2-5)
	3499 Fabricated metal products, n.e.c.....	(2-5)			
	3533 Oil field machinery.....	(2-5)	3317	3321 Gray iron foundries.....	(10-20)
3313	3291 Abrasive products.....	(5-10)		3351 Copper rolling and drawing.....	(2-5)
	3339 Primary nonferrous metals, n.e.c.....	(10-20)		3356 Nonferrous rolling and drawing, n.e.c.....	(2-5)
				3448 Prefabricated metal buildings.....	(2-5)
3315	3357 Nonferrous wire drawings and insulating.....	14.1		3465 Automotive stampings.....	(2-5)
	3449 Miscellaneous metal work.....	(2-5)		3469 Metal stampings, n.e.c.....	(2-5)
	3496 Miscellaneous fabricated wire products.....	(2-5)		3494 Valves and pipe fittings.....	(2-5)
				3644 Noncurrent-carrying wiring devices.....	18.3
				3751 Motorcycles, bicycles, and parts.....	(5-10)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

¹The value of shipments of industry 3312 includes duplication in that the products of some establishments are used as materials by others. For 1972, it is estimated that the duplication amounted to \$3.1 billion and, accordingly, a net value of shipments would total \$20.8 billion (adjusted for estimated cost of coke used as a fuel). (See text for fuller explanation.)

²Includes total for product class 34629, Open die forgings, made in steel forgings and other industries which are primary to industry 3462.

³The totals for product classes 33151, 33156, 33157, and 33159 include, respectively, the totals for product classes 34961, 34966, 34964, and 34969, which are primary to industry 3496, Fabricated Wire Products, N.E.C. Shipments of these product classes totaled as follows:

Product class	Value (million dollars)
34961	96.4
34966	73.5
34964	75.3
34969	457.5

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production	Product shipments including interplant transfers						Produced and consumed in the same plant in the manufacture of other products
				Total shipments		Shipments to other companies		Transfers to other plants of same company		
				Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)	
				1972						
3312- --	BLAST FURNACE AND STEEL MILL PRODUCTS, TOTAL....		(X)	(X)	25,781.6	(X)	(X)	(X)	(X)	(X)
33121 -- 33131 pt. 33134 --	Coke Oven, Blast Furnace, and Selected Electrometal- lurgical Products.....		(X)	(X)	1,754.0	(X)	(X)	(X)	(X)	(X)
	Coke oven products: ¹									
33121 11	Coke, except screenings and breeze.....	1,000 s. tons.	58,803.8	19,880.9	625.7	8,752.6	351.8	11,128.3	273.9	40,543.8
33121 12	Screenings and breeze.....	..do....	9,662.6	4,650.5	89.7	(D)	(D)	(D)	(D)	5,263.3
33121 31	Coke oven gas.....	Billion cu. ft.	1,624.1	109.2	21.3	(D)	(D)	(D)	(D)	1,445.9
	Coke oven by products:									
33121 41	Ammonia (sulfate and liquor).....		(X)	(X)	8.1	(X)	(D)	(X)	(D)	(X)
33121 51	Crude tar.....	Mil. gal.	711.6	348.8	38.0	316.8	34.2	32.0	3.8	352.7
33121 61	Tar derivatives.....		(X)							(X)
33121 71	Crude light oil.....	Mil. gal.	287.9		18.8	(X)	(D)	(X)	(D)	98.4
33121 81	Light oil derivatives.....	..do....	99.9	90.1	16.5	(D)	(D)	(D)	(D)	9.4
33121 83	Other coke oven products.....		(X)	(X)	55.3	(X)	(X)	(X)	(X)	(X)
	Blast furnace products:									
33121 91	Pig iron, including pig iron with silicon content up to and including 6 percent.	1,000 s. tons.	80,719.3	8,506.0	549.4	3,317.9	220.3	5,188.1	329.1	69,469.0
33121 92	Slag.....	..do....	(X)	(X)	(²)	(X)	(²)	(X)	(²)	(X)
33121 93	Sinter from ore, flue dust, and other materials.	..do....	39,580.1	964.6	13.0	(D)	(D)	(D)	(D)	38,337.3
33121 94	Blast furnace gas.....	Billion cu. ft.	4,947.3	(X)	223.7	(X)	(D)	(X)	(D)	4,734.4
	Blast furnace ferroalloys.....	1,000 s. tons.	(X)	(X)	294.5	(X)	(X)	(X)	(X)	(X)
33121 pt. 33131 pt. 33134 --	Made in steel works (industry 3312)..... Made in electric furnaces and other furnaces (industry 3313 and other industries).....	..do.... ..do.... ..do....	336.9 (X)	253.1 (X)	42.1 252.4	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (X)
33121 85 33131 11 33134 11 33121 87 33134 87 33121 89 33134 98	Ferromanganese..... Silvery iron..... Spiegeleisen..... Other ferroalloys.....	..do.... ..do.... ..do.... ..do....	1,072.4 } 391.4 }	707.6 370.8	131.0 163.5	514.5 (D)	101.0 (D)	193.1 (D)	30.0 (D)	276.9 (D)
3313- -- 33121 pt.	ELECTROMETALLURGICAL PRODUCTS, TOTAL.....	1,000 s. tons (gr. alloy wt.)	(X)	(X)	594.4	(X)	550.7	(X)	43.7	(X)
33121 pt. 3313- --	Made in blast furnaces (industry 3312)..... Made in electric and other furnaces (industry 3313 and other industries).....	..do.... ..do....	336.9 (X)	253.1 (X)	42.1 552.3	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (X)
33132 11 33133 11 33121 85 33131 11	Ferrochrome..... Ferrosilicon..... Ferromanganese.....	..do.... ..do.... ..do....	452.1 871.3 1,072.4	354.6 823.7 707.6	116.6 180.8 131.0	(D) 797.6 514.5	(D) 176.7 101.0	(D) 26.1 193.1	(D) 4.1 30.0	94.0 80.4 276.9
33121 pt. 33134 -- 33121 86 33134 11 33121 87 33121 89 33134 87 33134 98	Other Ferroalloys..... Silvery..... Other ferroalloys, including spiegeleisen.....	..do.... ..do.... ..do....	} 391.4 }	370.8 163.5	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D)
33130 00	Electrometallurgical products, n.s.k., for establish- ments with 10 employees or more. (See note.).....	..do....	(X)	(X)	2.2	(X)	2.2	(X)	-	(X)
33130 02	Electrometallurgical products, n.s.k., for establish- ments with less than 10 employees. (See note.).....	..do....	(X)	(X)	.3	(X)	.3	(X)	-	(X)

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Production	Product shipments including interplant transfers						Produced and consumed in the same plant in the manufacture of other products	
				Total shipments		Shipments to other companies		Transfers to other plants of same company			
				Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)		
				1967							
3312- --	BLAST FURNACE AND STEEL MILL PRODUCTS, TOTAL....	.....	(X)	(X)	20,869.1	(X)	(X)	(X)	(X)	(X)
33121 -- 33131 pt. 33134 --	Coke Oven, Blast Furnace, and Selected Electrometal- lurgical Products.....	.....	(X)	(X)	1,466.9	(X)	(X)	(X)	(X)	(X)
33121 11	Coke oven products: ¹ Coke, except screenings and breeze.....	1,000 s. tons.	62,742.5	21,503.7	401.5	8,216.5	176.3	13,287.2	225.2	44,042.6	
33121 12	Screenings and breeze.....	...do....	(NA)	2,017.5	20.1	1,392.6	12.9	624.9	7.2	(NA)	
33121 31	Coke oven gas.....	Billion cu. ft.	970.7	85.3	18.8	38.2	9.0	47.0	9.8	(NA)	
33121 41	Coke oven byproducts: Ammonia (sulfate and liquor).....	.....	(X)	(X)	14.2	(X)	(D)	(X)	(D)	(X)
33121 51	Crude tar.....	Mil. gal.	799.1	381.6	36.2	320.5	29.6	61.1	6.6	458.1	
33121 61	Tar derivatives.....	.....	(X)	(X)	28.8	(X)	19.4	(X)	9.4	(X)
33121 71	Crude light oil.....	Mil. gal.	229.0							99.0	
33121 81	Light oil derivatives.....	...do....	123.0	109.7	23.3	(D)	(D)	(D)	(D)	(D)	
33121 83	Other coke oven products.....	.....	(X)	(X)	(³)	(X)	(X)	(X)	(X)	(X)
33121 91	Blast furnace products: Pig iron, including pig iron with silicon content	1,000 s. tons.	82,532.3	10,374.8	561.8	4,315.8	240.1	6,059.0	321.7	70,547.2	
33121 92	Slag.....	...do....	(X)							(X)	
33121 93	Sinter from ore, flue dust, and other materials.	...do....	48,973.7		389.1	(X)	(D)	(X)	(D)	48,151.8	
33121 94	Blast furnace gas.....	Billion cu. ft.	5,664.1							4,793.8	
33121 pt. 33131 pt. 33134 -- 33121 85 33131 11 33121 86 33134 11 33121 87 33134 87 33121 89 33134 98	Blast furnace ferroalloys..... Made in steel works (industry 3312)..... Made in electric furnaces and other furnaces (industry 3313 and other industries)..... Ferromanganese..... Silvery iron..... Spiegeleisen..... Other ferroalloys.....	1,000 s. tons. ...do.... ...do.... ...do.... ...do.... ...do.... ...do.... ...do....		1,515.2	1,295.6	273.1	(D)	(D)	(D)	(D)	228.2
3313- -- 33121 pt.	ELECTROMETALLURGICAL PRODUCTS, TOTAL.....	1,000 s. tons (gr. alloy wt.)	(X)	(X)	483.0	(D)	(D)	(D)	(D)	(X)	
33121 pt. 3313- --	Made in blast furnaces (industry 3312)..... Made in electric and other furnaces (industry 3313 and other industries).....	...do.... ...do....	618.0	460.1	62.6	(D)	(D)	(D)	(D)	(D)	
33132 11 33133 11 33121 85 33131 11 33121 pt. 33134 -- 33121 86 33134 11 33121 87 33134 98	Ferrochrome..... Ferrosilicon..... Ferromanganese..... Other Ferroalloys..... Silvery iron..... Other ferroalloys, including spiegeliesen.....	...do.... ...do.... ...do.... ...do.... ...do.... ...do....	427.9 625.0	361.4 573.9	104.5 102.9	(D) (D)	(D) (D)	(D) (D)	(D) (D)	46.4 49.4	
33130 00 33130 02	Electrometallurgical products, n.s.k., for establish- ments with 10 employees or more. (See note.)..... Electrometallurgical products, n.s.k., for establish- ments with less than 10 employees. (See note.).....	...do.... ...do....	(X) (X)	(X) (X)	2.4 .1	(X) (X)	2.4 .1	- -	(X) (X)	(X) (X)	

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3312- --	BLAST FURNACE AND STEEL MILL PRODUCTS					
33122 --	Steel Ingot and Semifinished Shapes: ⁴					
	As reported in census of manufactures.....		(X)	2,502.9	(X)	2,526.5
	As reported in Current Industrial Reports, series MA-33B.....		(X)	2,382.3	(X)	2,484.6
33123 --	Tin Mill Products, Hot Rolled Sheet and Strip: ⁴					
	As reported in census of manufactures.....		(X)	6,740.1	(X)	4,533.3
	As reported in Current Industrial Reports, series MA-33B.....		(X)	6,746.8	(X)	4,524.2
33124 --	Hot Rolled Bars and Bar Shapes, Plates: ⁴					
	As reported in census of manufactures.....		(X)	5,612.8	(X)	4,456.4
	As reported in Current Industrial Reports, series MA-33-B.....		(X)	5,602.7	(X)	4,481.4
	Steel wire: ⁴					
	As reported in Current Industrial Reports, series MA-33B.....		(X)	719.6	(X)	645.6
33125 --	As reported in census of manufactures.....		(X)	726.3	(X)	678.1
33155 --	Made in steel mills (industry 3312).....		(X)	397.6	(X)	377.6
33125 00	Made in steel wiredrawing (industry 3315) and other					
33155 00	industries.....		(X)	328.7	(X)	300.5
	Steel pipe and tube: ⁴					
	As reported in Current Industrial Reports, series MA-33B.....		(X)	2,620.7	(X)	2,440.5
33126 --	As reported in census of manufactures.....		(X)	2,765.5	(X)	2,629.1
33176 --	Made in steel mills (industry 3312).....		(X)	1,501.0	(X)	1,554.1
33126 00	Made in steel pipe and tubes (industry 3317) and other					
33176 00	industries.....		(X)	1,264.5	(X)	1,075.0
	Cold rolled steel sheet and strip: ⁴					
	As reported in Current Industrial Reports, series MA-33B.....		(X)	3,882.0	(X)	2,985.9
33127 --	As reported in census of manufactures.....		(X)	4,037.9	(X)	3,161.9
33167 --	Made in steel mills (industry 3312).....		(X)	3,134.1	(X)	2,607.0
33127 00	Made in cold finishing of steel shapes (industry 3316) and					
33167 00	other industries.....		(X)	903.8	(X)	554.9
	Cold finished steel bars and bar shapes: ⁴					
	As reported in Current Industrial Reports, series MA-33B.....		(X)	777.1	(X)	613.4
33128 --	As reported in census of manufactures.....		(X)	827.6	(X)	629.2
33168 --	Made in steel mills (industry 3312).....		(X)	268.7	(X)	256.6
33128 00	Made in cold finishing of steel shapes (industry 3316) and					
33168 00	other industries.....		(X)	558.9	(X)	372.6
33129 --	Press and Hammer Steel Forgings ⁵		(X)	524.6	(X)	462.9
34629 --	Made in steel works (industry 3312).....	1,000 s. tons..	(NA)	266.1	(X)	208.6
33129 --	Made in steel forgings (industry 3462) and other industries...		(NA)	258.5	(X)	254.3
34629 --	Open-die hammer forgings:					
33129 21	Carbon steel.....	1,000 s. tons..	116.2	69.5	140.6	58.5
34629 21	Alloy steel (except stainless).....	..do.....	64.0	67.4	60.9	65.1
33129 23	Made in industry 3312.....	..do.....	6.3	9.5	11.2	11.6
34629 22	Made in industry 3462 and other industries.....	..do.....	57.7	57.9	49.7	53.5
33129 25	Stainless steel.....	..do.....	7.7	13.1	8.6	21.8
34629 23	Open-die press forgings:					
33129 61	Carbon steel.....	..do.....	223.1	96.9	164.6	74.1
34629 41	Made in industry 3312.....	..do.....	80.4	35.4	46.5	24.7
33129 61	Made in industry 3462 and other industries.....	..do.....	142.7	61.5	118.1	49.4
34629 41	Alloy steel (except stainless).....	..do.....	286.5	233.1	266.4	213.7
33129 63	Made in industry 3312.....	..do.....	185.9	177.0	150.1	152.3
34629 42	Made in industry 3462 and other industries.....	..do.....	100.6	56.1	116.3	61.4
33129 65	Stainless steel.....	..do.....	10.6	17.9	5.6	9.4
34629 43	Open-die hammer and press forgings, n.s.k.....		(X)	26.7	(X)	19.4
33129 00	Other steel mill products, except wire products (including blast					
34629 00	furnace and steel mill products not specified by kind, code					
33120 41	33120 00), for companies with 10 employees or more. (See note.): ⁴					
	As reported in Current Industrial Reports, series MA-33B.....		(X)	246.3	(X)	271.0
	As reported in census of manufactures.....		(X)	281.0	(X)	322.0
33120 02	Steel mill products, n.s.k., for companies with less than 10					
	employees. (See note.).....		(X)	8.9	(X)	2.8

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3315--	STEEL WIRE AND RELATED PRODUCTS, TOTAL.....		(X)	2,599.8	(X)	2,004.2
33151 --	Noninsulated Ferrous Wire Rope, Cable, and Strand.....		(X)	366.6	(X)	246.0
34961 --						
33151 --			(X)	270.2	(X)	164.2
34961 --			(X)	96.4	(X)	81.8
33151 11	Iron and steel wire rope and cable ⁶	1,000 s. tons..	398.2	243.2	274.2	176.1
34961 11		..do.....	333.0	188.2	172.6	98.9
33151 11		..do.....	65.2	55.0	101.7	77.2
33151 21	Composite strand, rope, and cable, including wire strands of different metals (except ACSR).....	..do.....	4.0	7.1	26.0	23.0
34961 21						
33151 35		..do.....	175.0	55.4	68.1	25.3
34961 35		..do.....	142.1	48.3	(NA)	(NA)
33151 35	concrete, including guard rail cable ⁶.....	..do.....	32.9	7.1	(NA)	(NA)
34961 35		..do.....				
33151 33	Wire strand for prestressed concrete ⁶.....	..do.....	70.6	27.2	59.8	19.0
34961 33		..do.....				
33151 41	Wire forms.....	..do.....	(NA)	28.1		
34961 41		..do.....	(NA)	3.7	(NA)	(NA)
33151 41		..do.....	(NA)	24.4		
34961 41	Noninsulated ferrous wire, rope, cable, and strand, n.s.k...	..do.....	(X)	5.6	(X)	2.4
33151 00		..do.....				
34961 00						
33152 --	Steel Nails and Spikes.....		(X)	248.5	(X)	158.8
33152 11	Steel wire nails, spikes, and brads: ⁶ Bright.....	1,000 s. tons..	226.8	68.4	240.9	58.1
33152 13		..do.....	81.5	29.0	60.9	17.3
33152 17		..do.....	73.3	20.0	61.1	12.8
33152 19		..do.....	77.4	40.9	14.0	6.3
33152 23	Steel wire staples ⁶.....	..do.....	87.9	72.0	64.6	47.0
33152 25	Steel tacks (wire and box).....	..do.....	8.4	9.4	8.3	7.2
33152 33	Steel cut nails, spikes, and brads, including track spikes and horseshoe nails.....	..do.....	19.8	7.0	31.7	7.9
33152 00	Steel nails and spikes, n.s.k.....	..do.....	(X)	1.8	(X)	2.2
	Steel wire: ⁷					
33125 --	As reported in Current Industrial Reports, series MA-33B.....		(X)	719.0	(X)	645.6
33155 --			(X)	726.3	(X)	678.1
33125 00			(X)	397.6	(X)	377.6
33155 00			(X)	328.7	(X)	300.5
33156 00	Fencing and Fence Gates.....		(X)	245.6	(X)	130.8
34966 --						
33156 --			(X)	172.1	(X)	75.8
34966 --	Made in fabricates wire products, n.e.c. (industry 3496) and other industries.....		(X)	73.5	(X)	55.0
33156 13	Chain link fencing, excluding post, gates, and fittings.....	1,000 s. tons..	173.3	65.1	(NA)	49.5
34966 13		..do.....	141.4	37.4	(NA)	(NA)
33156 13		..do.....	31.9	27.7	(NA)	(NA)
33156 35	Fence gates, posts, and fittings.....	..do.....	235.8	76.4	(NA)	41.4
34966 35		..do.....				
33156 21	Wire fence, woven and welded ⁶.....	..do.....	368.9	100.0	136.2	31.6
34966 21		..do.....	327.3	88.2	120.0	26.5
33156 21		..do.....	41.6	11.8	16.2	5.1
33156 71	Ornamental lawn fence.....	..do.....	4.0	2.3	7.7	2.5
34966 71		..do.....	(NA)	(NA)	7.2	2.0
33156 71		..do.....	(NA)	(NA)	.5	.5
34966 71	Fencing and fence gates, n.s.k.....	..do.....	(X)	1.8	(X)	5.7
33156 00		..do.....				
34966 00						

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3315- --	STEEL WIRE AND RELATED PRODUCTS--Continued					
33157 -- 34964 --	Ferrous Wire Cloth and Other Woven Ferrous Wire Products.....		(X)	128.9	(X)	89.3
33157 -- 34964 --	Made in industries 3312 and 3315.....		(X)	53.6	(X)	35.4
33157 21 34964 11	Made in fabricated wire products, n.e.c. (industry 3496) and other industries.....		(X)	75.3	(X)	53.9
33157 21 34964 11	Insect wire screening, steel, including stainless steel....	Million sq. ft.	83.8	3.8	145.7	5.9
33157 31 34964 31	Hardware cloth.....	1,000 s. tons..	10.0	11.4	18.1	12.4
33157 61 34964 61	Industrial wire cloth, steel.....	Million sq. ft.	(NA)	41.1	(NA)	33.4
33157 61 34964 61	Made in industries 3312 and 3315.....	..do.....	(NA)	9.5		
33157 61 34964 61	Made in industry 3496 and other industries.....	..do.....	(NA)	31.6		
33157 71 34964 71	Woven wire netting (poultry, fur farm, stucco, etc.) ⁶.....	..do.....	(NA)	25.7		
33157 81 34964 81	Stainless steel paper machine wire cloth (fourdrinier and cylinder).....	..do.....	(NA)	5.4	(NA)	19.4
33157 81 34964 81	Made in industries 3312 and 3315.....	..do.....	(NA)	—		
33157 81 34964 81	Made in industry 3496 and other industries.....	..do.....	(NA)	5.4		
33157 98 34964 98	Other wire cloth and woven wire products including diamond cloth.....	..do.....	(NA)	37.6	(X)	4.0
33157 00 34964 00	Wire cloth and woven wire products, n.s.k.....		(X)	3.9		
33159 -- 34969 --	Other Fabricated Wire Products.....		(X)	847.5	(X)	668.2
33159 -- 34969 --	Made in industries 3312 and 3315.....		(X)	390.0	(X)	293.7
33159 -- 34969 --	Made in fabricated wire products, n.e.c. (industry 3496) and other industries.....		(X)	457.5	(X)	374.5
33159 41 34969 41	Wire chain:					
33159 41 34969 41	Tire.....	1,000 s. tons..	32.1	35.6	44.6	38.6
33159 49 34969 49	Other.....	..do.....	78.2	69.0	71.6	51.6
33159 49 34969 49	Made in industries 3312 and 3315.....	..do.....	61.2	47.8	37.2	25.4
33159 49 34969 49	Made in industry 3496 and other industries.....	..do.....	17.0	21.2	34.4	26.2
33159 51 34969 51	Barbed and twisted steel wire ⁶.....	..do.....	141.2	37.9	165.7	34.6
33159 51 34969 51	Made in industries 3312 and 3315.....	..do.....	118.6	31.0	(NA)	(NA)
33159 51 34969 51	Made in industry 3496 and other industries.....	..do.....	22.6	6.9	(NA)	(NA)
33159 55 34969 55	Wire bale ties ⁶.....	..do.....	143.7	36.4	129.3	25.9
33159 55 34969 55	Made in industries 3312 and 3315.....	..do.....	130.2	30.6	108.1	20.4
33159 55 34969 55	Made in industry 3496 and other industries.....	..do.....	13.5	5.8	21.2	5.5
33159 61 34969 61	Welded steel wire fabric:					
33159 61 34969 61	Concrete reinforcing mesh.....	..do.....	633.9	130.4	678.8	116.9
33159 61 34969 61	Made in industries 3312 and 3315.....	..do.....	539.4	109.3	588.7	98.8
33159 61 34969 61	Made in industry 3496 and other industries.....	..do.....	94.5	21.1	90.1	18.1
33159 65 34969 65	Other welded steel wire fabric.....	..do.....	185.3	53.1	200.9	51.7
33159 65 34969 65	Made in industries 3312 and 3315.....	..do.....	176.7	47.0	183.5	38.3
33159 65 34969 65	Made in industry 3496 and other industries.....	..do.....	8.6	6.1	17.4	13.4
33159 71 34969 71	Wire garment hangers.....	Million lb.....	233.7	48.2	254.1	39.3
33159 71 34969 71	Made in industries 3312 and 3315.....	..do.....	176.5	32.4	(NA)	(NA)
33159 71 34969 71	Made in industry 3496 and other industries.....	..do.....	57.2	15.8	(NA)	(NA)
33159 73 34969 73	Wire carts, including household, grocery-type, and industrial.		(X)	36.3	(X)	19.0
33159 75 34969 75	Steel wire cages.....		(X)	9.3	(X)	16.2
33159 77 34969 77	Paper clips.....		(X)	359.8	(X)	3.2
33159 98 34969 98	Other wire products including baskets, guards, florists' designs, kitchenware, etc.....		(X)	31.5	(X)	242.4
33159 00 34969 00	Other fabricated wire products, n.s.k.....		(X)	31.5	(X)	28.9
33150 00	Steel wiredrawing, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	32.0	(X)	32.1
33150 02	Steel wiredrawing, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.4	(X)	1.1

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3316- --	COLD ROLLED STEEL SHAPES.....		(X)	4,889.9	(X)	3,809.4
	Cold Rolled Steel Sheet and Strip: ⁷					
33127 } 33167 }	As reported in the census of manufactures.....		(X)	4,037.9	(X)	3,161.9
33127 00 33167 00	Made in steel works (industry 3312).....		(X)	3,134.1	(X)	2,607.0
	Made in cold finishing of steel shapes (industry 3316) and other industries.....		(X)	903.8	(X)	554.9
	As reported in Current Industrial Reports series MA-33B, "Steel Mill Products".....		(X)	3,882.0	(X)	2,985.9
	Cold Finished Steel Bars, and Bar Shapes: ⁷					
33128 } 33168 }	As reported in the census of manufactures.....		(X)	827.6	(X)	629.2
33128 00 33168 00	Made in steel works (industry 3312).....		(X)	268.7	(X)	256.6
	Made in cold finishing of steel shapes (industry 3316) and other industries.....		(X)	558.9	(X)	372.6
	As reported in Current Industrial Reports series MA-33B, "Steel Mill Products".....		(X)	777.1	(X)	613.4
33160 00	Cold finished steel sheet, strip, and bars, n.s.k., for establish- ments with 10 employees or more. (See note.).....		(X)	22.7	(X)	17.9
33160 02	Cold finished steel sheet, strip, and bars, n.s.k., for establish- ments with less than 10 employees. (See note.).....		(X)	1.7	(X)	.4
3317- --	STEEL PIPE AND TUBES ⁷					
33176 -- } 33126 -- }	As reported in the census of manufactures.....		(X)	2,765.5	(X)	2,629.1
33126 -- 33126 00	Made in steel works (industry 3312).....		(X)	1,501.0	(X)	1,554.1
33176 00	Made in steel pipe and tubes (industry 3317) and other industries.....		(X)	1,264.5	(X)	1,075.0
	As reported in Current Industrial Reports series MA-33B, "Steel Mill Products".....		(X)	2,620.7	(X)	2,440.5

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Excludes quantities produced in byproduct coke ovens operated in conjunction with utilities producing and distributing gas.

²Data for 1972 for product code 33121 92 are combined with code 33121 94 in order to avoid disclosing figures for individual companies.

³Data for 1967 for product code 33121 83 included with product codes 33121 92, 33121 93, and 33121 94.

⁴Excludes shipments of steel processed on a conversion basis for non-steel-producing companies. Detailed data by shape and grade and net shipments figures appear in tables 6A-2 to 6A-7.

⁵These figures are not strictly comparable with tonnage shipments shown in Current Industrial Reports, series MA-33C, Commercial Steel Forgings, in that the latter includes only forgings for sale, whereas, the 1972 and 1967 censuses of manufactures include interplant transfers of forgings. Accordingly, a direct comparison with the Current Industrial Reports series is not possible. Forgings produced and consumed within the same plant are not included in either the census or the Current Industrial Reports figures. The totals reported in the Current Industrial Reports survey for commercial steel forgings were as follows:

Item	1972 (1,000 short tons)	1967 (1,000 short tons)
Open-die hammer forgings:		
Carbon.....	93.9	117.1
Alloy, including stainless.....	58.9	84.7
Open-die press forgings:		
Carbon.....	99.3	70.8
Alloy, including stainless.....	135.1	127.3

⁶Annual data are published for these products in Current Industrial Reports, series MA-33B, "Steel Mill Products."

⁷Excludes shipments of steel processed on a conversion basis for non-steel-producing companies. Detailed data by shape and grade and net shipments are published in Current Industrial Reports, series MA-33B, "Steel Mill Products," for 1972.

TABLE 6A-2. Receipts, Consumption, and Shipments of Steel Mill Products: 1972

1972 product code	Product	Receipts ¹ (short tons)	Steel consumed in producing plants for (1) fab- ricated products or (2) maintenance, repair, and opera- ting supplies (short tons)	Shipments ¹							
				Total		To other companies				Transfers to other plants of same company	
				Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)		
33122 11	CARBON STEEL Ingots.....	1,434,682	140,930	1,495,953	121,528	124,254	10,602	1,371,699	110,926		
33122 13	Semifinished Products: Blooms, billets, slabs, sheet bars, tin mill bars, tube rounds, and skelp.....	10,731,809	319,129	11,565,913	1,294,282	3,261,840	394,217	8,304,073	900,065		
33122 19	Wire rods.....	1,605,247	60,818	2,512,311	394,595	2,170,571	339,723	341,740	54,872		
	Finished Products:										
33124 11	Plates: Floor Plates.....	(D)	(D)	192,703	38,219	192,703	38,219	(²)	(²)		
33124 13	Plates, other than floor plates.....	450,018	149,736	6,499,017	1,189,279	5,657,393	1,059,503	841,624	129,776		
33123 11	Sheets: Hot rolled, including enameling sheets.....	7,657,620	371,624	20,540,426	2,898,592	14,561,501	2,082,072	5,978,925	816,520		
33167 11	Cold rolled.....	1,518,274	336,359	16,376,375	2,907,340	14,104,433	2,512,705	2,271,942	394,635		
33123 13	Sheets and strip: Galvanized: Hot-dipped.....	103,823	89,192	5,217,942	1,118,297	4,782,492	1,015,989	435,450	102,308		
33123 15	Electrolytic.....	21,165	1,881	311,703	68,817	311,703	68,817	(²)	(²)		
33123 17	All other metallic coated, including long ternes.	(D)	(D)	574,952	136,490	553,655	131,342	21,297	5,148		
33123 18	Electrical.....										
33123 19	Strip: Hot rolled.....	876,945	87,694	1,710,125	294,723	1,410,476	247,092	299,649	47,631		
33167 15	Cold rolled.....	211,046	19,878	1,040,742	325,153	838,401	284,720	202,341	40,433		
33123 24	Tin-mill products: Black plate.....	182,706	4,442	601,429	115,639	601,429	115,639	(²)	(²)		
33123 26	Electrolytic and hot-dipped tin plate.....	(D)	(D)	4,371,590	1,093,514	4,371,590	1,093,514	(²)	(²)		
33123 28	Tin-free steel.....	(D)	(D)	982,911	218,677	982,911	218,677	(²)	(²)		
33123 29	All other tin mill products, including short ternes, and steel foil.....	-	-	23,580	6,310	23,580	6,310	(²)	(²)		
33124 15	Structural shapes (heavy), sheet piling and bearing piles.....	(D)	(D)	5,199,305	910,918	5,004,326	876,757	194,979	34,161		
33124 22	Bars: Hot rolled bars except concrete reinforcing.....	1,477,786	465,491	7,058,261	1,368,688	6,377,843	1,229,664	680,418	139,024		
33134 24	Light structurals (under 3 inches).....	(D)	(D)	550,271	94,067	519,962	87,751	30,309	6,316		
33124 25	Concrete reinforcing bars: Rolled from new billets.....	88,962	239,382	4,035,296	517,559	3,190,347	410,344	844,949	107,215		
33124 27	Rolled from old materials (rails, axles, etc.)	(D)	(D)	193,057	25,284	193,057	25,284	(²)	(²)		
33168 11	Cold finished bars.....	3,863	2,066	1,573,836	488,775	1,516,959	469,232	56,877	19,543		
33124 29	Tool Steel.....	(D)	(D)	4,197	5,281	4,197	5,281	(²)	(²)		
33120 11	Rails, Wheels, and Track Accessories: Rails: Standard tee (over 60 lb. per yard).....	(D)	(D)	880,141	140,119	880,141	140,119	(²)	(²)		
33120 13	All other rails, including light (60 lb. per yard and under).....	(D)	(D)	44,713	8,762	44,713	8,762	(²)	(²)		
33120 15	Joint bars.....	(D)	(D)	27,212	11,858	27,212	11,858	(²)	(²)		
33120 17	Tie plates.....	(D)	(D)	195,305	37,490	195,305	37,490	(²)	(²)		
33120 19	Wheels, rolled and forged.....	(D)	(D)	184,420	48,036	184,420	48,036	(²)	(²)		

See footnotes at end of table.

TABLE 6A-2. Receipts, Consumption, and Shipments of Steel Mill Products: 1972—Continued

1972 product code	Product	Receipts ¹		Steel consumed in producing plants for (1) fab- ricated products or (2) maintenance, repair, and opera- ting supplies	Shipments ¹					
		(short tons)	(short tons)		Total		To other companies		Transfers to other plants of same company	
					Quantity	Value, f.o.b. plant (\$1,000)	Quantity	Value, f.o.b. plant	Quantity	Value, f.o.b. plant
CARBON STEEL—Continued										
33176 11	Pipe and Tubes:									
33176 12	Standard pipe.....	(D)	(D)		2,366,597	547,593	2,174,511	507,072	192,086	40,521
33176 19	Line pipe.....	(D)	(D)		1,705,444	348,135	1,685,933	344,318	19,511	3,817
	Oil country goods.....	(D)	(D)		914,249	275,278	914,249	275,278	(²)	(²)
33176 21	Pressure tubing:									
33176 22	Seamless.....	(D)	(D)		93,220	48,600	93,220	48,600	(²)	(²)
	Welded.....	(D)	(D)		103,920	63,567	103,920	63,567	(²)	(²)
33176 23	Mechanical tubing:									
33176 24	Seamless.....	29,145	355		417,634	154,200	415,180	153,386	2,454	814
33176 27	Welded.....	6,281	44,755		1,244,084	401,025	1,216,889	389,038	27,195	11,987
	Structurals.....	(D)	(D)		664,054	124,493	664,054	124,493	(²)	(²)
33155 11	Wire:									
33155 15	Plain wire.....	92,880	441,522		1,638,374	437,009	1,557,414	417,381	80,960	19,628
33155 19	Galvanized wire.....	(D)	(D)		300,629	86,058	293,028	82,764	7,601	3,294
	Other coated wire.....	(D)	(D)		189,155	94,889	189,155	94,889	(²)	(²)
33162 21	Wire Products: ³									
33159 51	Nails and staples.....	(D)	(D)		433,002	133,840	433,002	133,840	(²)	(²)
33156 21	Barbed and twisted wire.....	(D)	(D)		112,029	31,102	112,029	31,102	(²)	(²)
33159 55	Wire fence, woven and welded.....	(D)	(D)		385,786	103,424	373,865	100,551	11,921	2,873
33151 11	Bale ties.....	295	320		92,948	21,917	92,948	21,917	(²)	(²)
	Wire rope and cable.....	902	769		135,260	112,413	135,260	112,413	(²)	(²)
33151 33	Wire Strand:									
33151 35	For prestressed concrete.....	-	-		55,967	17,037	55,967	17,037	(²)	(²)
33157 71	Other.....	(D)	(D)		143,483	52,487	140,851	51,364	2,632	1,123
	Woven wire netting.....	(D)	(D)		47,733	26,639	47,733	26,639	(²)	(²)
33122 31	ALLOY STEEL									
	Ingots.....	242,074	428,164		255,726	69,358	29,569	8,200	226,157	61,158
33122 36	Semifinished Products:									
33122 39	Blooms, billets, slabs, sheet bars, tube rounds, and skelp.....	884,852	281,859		1,235,931	292,723	432,222	120,451	803,709	172,272
	Wire rods.....	(D)	(D)		57,617	17,299	57,617	17,299	(²)	(²)
33123 31	Finished Products:									
33167 31	Sheet and Strip:									
33123 33	Sheets:									
33123 35	Hot rolled.....	(D)	(D)		481,662	98,315	481,662	98,315	(²)	(²)
	Cold rolled.....	(D)	(D)		64,199	22,155	63,372	21,923	827	232
33123 39	Sheets and Strip:									
33123 35	Hot-dipped galvanized.....	(D)	(D)		1,161,945	366,795	1,161,945	366,795	(²)	(²)
	Electrical.....	(D)	(D)							
33123 39	Strip:									
33167 35	Hot rolled.....	(D)	(D)		97,951	24,349	86,200	21,360	11,751	2,989
33124 31	Cold rolled.....	(D)	(D)		50,493	53,507	49,937	52,470	556	1,037
33124 35	Plates.....	220,625	4,232		1,586,028	397,369	1,189,486	310,869	396,542	86,500
	Structural shapes (3 inches and over).....	(D)	(D)		613,839	128,090	613,839	128,090	(²)	(²)
33124 41	Bars:									
33168 31	Hot rolled, including structural shapes under 3 inches.....	(D)	(D)		2,205,423	583,077	1,918,009	513,431	287,414	69,646
	Cold finished.....	(D)	(D)		233,243	119,942	202,399	109,167	30,844	10,775

See footnotes at end of table.

TABLE 6A-2. Receipts, Consumption, and Shipments of Steel Mill Products: 1972—Continued

1972 product code	Product	Receipts ¹ (short tons)	Steel consumed in producing plants for (1) fab- ricated products or (2) maintenance, repair, and opera- ting supplies (short tons)	Shipments ²					
				Total		To other companies		Transfers to other plants of same company	
				Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)
ALLOY STEEL—Continued									
33124 48	Tool Steel:								
33124 49	High speed.....	(D)	(D)	19,230	64,902	15,194	57,727	7,175	
	Other than high speed.....	(D)	(D)	63,328	96,548	51,544	88,422	8,126	
33176 31	Pipe and Tubes:								
33176 33	Line pipe.....	(D)	(D)	255,560	65,311	255,560	65,311	(²)	
33176 43	Oil country goods.....	(D)	(D)	338,692	128,401	338,692	128,401	(²)	
33176 45	Pressure tubing.....	(D)	(D)	50,654	47,150	50,654	47,150	(²)	
33176 47	Mechanical tubing.....	(D)	(D)	470,776	242,909	470,776	242,909	(²)	
33176 49	Structural.....	-	-	15,416	5,655	15,416	5,655	(²)	
	Miscellaneous, including standard pipe.....	(D)	(D)						
33155 31	Wire:								
33155 35	Plain wire.....	(D)	(D)	42,189	35,393	42,189	35,393	(²)	
33155 39	Galvanized wire.....	-	-						
	Other coated wire.....	-	-						
STAINLESS STEEL									
33122 51	Ingots.....	77,511	8,646	70,657	55,843	18,616	17,795	38,048	
33122 56	Semifinished Products:								
	Blooms, billets, slabs, sheet bars, tube rounds, and skelp.....	132,514	12,270	131,416	91,641	30,376	38,665	52,976	
33122 59	Wire rods.....	(D)	(D)	14,235	15,083	14,235	15,083	(²)	
33124 53	Finished Products:								
	Plates and structurals.....	(D)	(D)	71,729	93,094	67,478	87,997	5,097	
	Sheets and Strip:								
33123 51	Hot rolled.....	(D)	(D)	330,166	197,205	44,502	33,176	164,029	
33167 51	Cold rolled.....	3,843	621	253,001	257,050	244,673	248,149	8,901	
33123 59	Strip:								
33167 55	Hot rolled.....	154,381	-	157,425	109,093	64,613	45,550	63,543	
	Cold rolled.....	(D)	(D)	295,598	316,758	267,202	286,036	30,722	
33124 61	Bars:								
33168 51	Hot rolled.....	(D)	(D)	70,347	90,351	48,301	68,151	22,200	
	Cold finished.....	(D)	(D)	99,734	168,357	99,734	168,357	(²)	
33176 61	Pipe and Tubes:								
33176 62	Pressure Tubing:								
	Seamless.....	(D)	(D)	12,854	37,392	12,854	37,392	(²)	
	Welded.....	(D)	(D)	35,935	75,222	35,935	75,222	(²)	
33176 63	Mechanical Tubing:								
	Seamless.....	(D)	(D)	3,264	16,682	3,264	16,682	(²)	
33176 64	Welded.....	(D)	(D)	16,171	39,051	16,171	39,051	(²)	
33155 51	Wire.....	887	118	34,512	66,219	34,512	66,219	(²)	

- Represents zero. (D) Withheld to avoid disclosing figures of individual companies. In some cases, figures which are otherwise publishable are withheld to avoid indirect disclosure by subtraction from higher-level totals or from related figures.

¹Excludes receipts and shipments of steel processed on a conversion basis for non-steel-producing companies. Receipts data represent receipts at producing mills only, but include receipts from both domestic and foreign sources.

²Transfers to other plants of the same company are included with shipments to other companies. Such transfers constituted between 10 and 20 percent for all other carbon rails, carbon pressure tubing, carbon wire strand for prestressed concrete, cold-finished stainless steel bars, and stainless steel seamless pressure and mechanical tubing; and between 20 and 50 percent for carbon electrical sheets and strip, carbon concrete reinforcing bars rolled from old materials, carbon tool steel, carbon wire rope and cable, alloy hot-rolled sheets, alloy pressure tubing, and stainless wire rods. For all other cases, interplant transfers constitute less than 10 percent of the total.

³See footnote 2, table 6A-4.

Source: Current Industrial Reports, series MA33B, "Steel Mill Products."

TABLE 6A-3. Receipts, Production, Consumption, and Shipments of Steel Mill Products: 1967

1967 product code	Product	Receipts ¹ (short tons)	Production (short tons)	Products consumed in producing plants (short tons)				Total		To other companies		Transfers to other plants of same company	
				In the manufacture of —			Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	
				Other basic steel shapes and forms	Fabricated products	As maintenance, repair, and operating supplies							
33122 11	CARBON STEEL Ingots.....	1,603,419	112,434,726	112,187,312	74,869	18,026	1,383,877	106,130	55,917	7,428	1,327,960	98,702	
33122 13	Semifinished Shapes and Forms:												
33122 15	Blooms, billets, slabs, sheet bars, and tinplate bars.	11,806,557	88,805,972	84,586,136	150,555	71,262	13,468,724	1,275,209	2,127,322	234,098	11,341,402	1,041,111	
33122 17	Tube rounds.....	874,637	2,687,648	2,728,713	(D)	(D)	875,398	116,321	68,835	9,820	806,563	106,501	
33122 19	Wire rods.....	1,223,620	3,899,116	3,654,517	(D)	(D)	1,282,562	141,489	628,329	72,540	654,233	68,949	
33122 19	Wire rods.....	1,502,125	4,459,136	3,917,322	51,201	3,752	1,925,004	261,007	1,437,465	190,097	487,539	70,910	
33124 11	Finished Shapes and Forms:												
33124 11	Plates:												
33124 13	Floor plates.....	1,187,798	185,612	1,048,350	101,807	101,133	181,517	27,725	181,517	27,725	(²)	(²)	
33124 15	Plates, other than floor plates.....		7,716,443				7,193,692	998,885	5,919,178	816,094	1,274,514	2182,791	
33124 17	Structural shapes.....												
33124 17	Piling:												
33124 19	Sheet piling.....	52,589	5,923,731	(D)	42,430	36,580	5,874,986	782,989	5,424,828	724,419	450,158	58,570	
33124 19	Bearing piles.....												
33123 11,	Sheets and strip:												
33123 15	Sheets:												
33123 17	Hot-rolled and enameling.....	5,435,186	15,552,825	5,184,367	202,558	27,942	14,076,257	1,684,235	10,029,155	1,207,426	4,047,102	476,809	
33123 17	Cold-rolled.....	1,083,851	15,977,965	1,176,838	220,662	15,886	15,196,261	2,157,840	13,278,919	1,897,973	1,917,342	259,867	
33123 14,	Electrical sheets and strip.....	(D)	33,968	(D)	(D)	(D)	47,189	8,734	247,189	28,734	(²)	(²)	
33123 13	Galvanized sheets.....	45,803	4,497,381	73,132	186,542	5,686	4,006,769	713,211	24,006,769	2,713,211	(²)	(²)	
33123 17	Long ternes.....	3,420	334,870	2,028	(D)	(D)	336,636	65,774	2336,636	265,774	(²)	(²)	
33123 19	Strip:												
33123 19	Hot rolled.....	582,556	1,725,518	597,361	80,173	8,405	1,659,401	236,887	1,291,622	191,187	367,779	45,700	
33123 15	Cold rolled.....	392,701	1,389,778	352,587	66,655	1,018	1,369,345	314,072	1,155,264	277,150	214,081	36,922	
33123 21	Galvanized.....	(D)	307,030	10,525	(D)	(D)	276,321	53,109	276,321	53,109	(²)	(²)	
33123 24,	Tin mill products:												
33123 25	Black plate, including chemically treated	(D)	690,958	(D)	(D)	(D)	625,211	92,385					
33123 26,	Black plate.....	(D)	32,027	(D)	(D)	(D)	36,986	8,857	6,348,848	1,197,160	43,851	6,588	
33123 26,	Hot-dipped tinplate and terneplate.....	(D)	5,842,736	(D)	(D)	(D)	5,730,502	1,102,506					
33123 27	Tinplate, electrolytic.....	(D)		(D)	(D)	(D)							
33124 21	Bars:												
33124 21	Hot-rolled bars, except concrete reinforcing:												
33124 23	Hollow drill steel.....	1,508,880	7,592,104	1,566,251	488,181	29,316	6,913,039	1,049,750	6,195,643	941,819	717,396	107,931	
33124 23	All other.....												
33124 25	Concrete reinforcing bars:												
33124 25	Rolled from new billets.....	(D)	4,177,005	(D)	(D)	21,130	3,829,215	425,623	2,674,294	308,842	1,154,921	116,781	
33124 27	Rolled from old materials (rails, axles, etc.).	(D)	76,584	(D)	(D)	(D)	63,080	28,495	263,080	8,495	(²)	(²)	
33124 27	Cold finished bars.....	(D)	1,594,384	(D)	(D)	(D)	1,598,321	384,999	1,548,956	372,198	49,365	12,801	
33124 11	Tool-steel bars.....	(D)	7,687	(D)	(D)	(D)	6,850	5,741	26,850	25,741	(²)	(²)	
33124 29	Pipe and tubes:												
33176 11	Standard pipe.....	(D)	2,858,117	97,870	(D)	19,821	2,836,764	521,384	2,660,399	490,610	176,365	30,774	
33176 12	Line pipe.....	(D)	2,591,768	(D)	(D)	979	2,327,349	428,606	2,215,882	408,719	111,467	19,887	
33176 13	Oil country goods.....	(D)	1,006,431	(D)	(D)	(D)	1,006,996	243,620	1,135,073	262,242	78,029	17,101	
33176 19	Miscellaneous.....	(D)	520,693	5,520	(D)	(D)	206,106	35,723					
33176 19	Pressure tubing:												
33176 21	Seamless.....	(D)	402,433	(D)	(D)	(D)	101,850	44,515	185,935	91,559	40,150	16,861	
33176 22	Welded.....	(D)	124,737	(D)	(D)	(D)	124,235	63,905					

See footnotes at end of table.

TABLE 6A-3. Receipts, Production, Consumption, and Shipments of Steel Mill Products: 1967—Continued

1967 product code	Product	Receipts ¹ (short tons)	Production (short tons)	Products consumed in producing plants (short tons)				Total		To other companies		Transfers to other plants of same company	
				In the manufacture of—			As maintenance, repair, and operating supplies	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)
				Other basic steel shapes and forms	Fabricated products	Quantity (short tons)							
33176 23 33176 24	CARBON STEEL—Continued Finished Shapes and Forms—Continued Pipe and tubes—Continued Mechanical tubing: Seamless..... Welded.....	(D) 93,436	402,433 1,013,936	8,763 39,986	(D) 93,877	23		403,429 953,639	130,752 258,798	395,469 929,961	128,412 252,574	7,960 23,678	2,340 6,224
33155 11 33155 15 33155 19	Wire: Plain wire..... Galvanized wire..... Other coated wire.....	125,483 32,787 5,692	2,587,169 370,626 162,250	192,849 22,638 2,835	628,005 57,769 55,281	7,788 1,285 -		1,766,194 261,926 153,148	391,979 64,128 67,746	1,616,632 230,628 130,659	354,282 56,139 60,495	149,562 31,298 22,489	37,697 7,989 7,251
33152 21 33159 51 33156 21 33159 55 33151 11	Wire products: ³ Nails and staples..... Barbed and twisted wire..... Wire fence, woven and welded..... Bale ties..... Wire rope and cable.....	26,046	364,182 176,516 143,775 86,779 132,769										
33151 33 33151 35 33157 71	Wire strand: For prestressed concrete..... Other..... Woven wire netting.....		58,115 79,325 49,099		9,669	745							
	Rails, wheels, and track accessories: Rails: Standard tee (over 60 lb. per yard)..... All other (light tee, girder, guard, etc.).....												
33120 11 13 33120 14 33120 15 33120 19	Rail joints and tie plates..... Wheels, rolled (including tires and rims)..... Other rolled and drawn carbon steel products.....		690,902 47,160 195,794 291,630 405,465										
33122 31	ALLOY STEEL, EXCEPT STAINLESS Ingots.....	199,234	12,507,829		266,697	2,768							
33122 33 33122 35, 37 33122 39	Semifinished shapes and forms: Blooms, billets, slabs, and sheet bars..... Tube rounds and skelp..... Wire rods.....	1,077,462 336,279 (D)	8,372,598 939,182 71,538	7,859,918 931,280 138,094	265,230 (D) (D)	8,368 (D) -							
33124 31, 35	Finished shapes and forms: Plates and structural shapes..... Sheets and strip:	(D)	2,198,546	(D)	(D)	(D)							
33123 31 33167 31 33123 34, 42	Sheets: Hot rolled..... Cold rolled..... Electrical, sheet and strip.....	33,983 (D) (D) (D)	342,942 113,501 816,854	(D) (D) -	(D) - (D)	(D) (D) -							
33167 35 33123 39	Strip: Cold rolled..... Hot rolled.....	(D) (D) (D)	34,812 56,895	412 10,877	(D) -	(D) (D)							
33124 41 33168 31 33124 48 2224 49	Bars: Hot rolled..... Cold finished..... Tool steel bars: High speed..... Other than high speed.....	174,278 (D) (D) 3,570 3,527	2,077,443 229,815 30,479 70,667	176,533 (D) (D) (D)	44,286 (D) (D) (D)	1,682 (D) (D) (D)							

See footnotes at end of table.

TABLE 6A-3. Receipts, Production, Consumption, and Shipments of Steel Mill Products: 1967—Continued

1967 product code	Product	Receipts ¹ (short tons)	Production (short tons)	Products consumed in producing plants (short tons)			Shipments ¹					
							Total		To other companies		Transfers to other plants of same company	
							Quantity	Value, f.o.b. plant	Quantity	Value, f.o.b. plant		
				Other basic steel shapes and forms	Fabricated products	As mainte- nance, repair, and operating supplies	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)	Quantity (short tons)	Value, f.o.b. plant (\$1,000)
	ALLOY STEEL, EXCEPT STAINLESS—Continued											
	Finished Shapes and Forms—Continued											
	Pipe and tubes:											
	Oil country goods.....											
33176 33												
33176 41,	Pressure tubing, seamless and welded.....											
42												
33176 43,	Mechanical tubing, seamless and welded.....	129,427			16,370	812						
44												
33176 31,	Standard, line, and miscellaneous.....											
32,39												
33155 31,	Wire.....	(D)			(D)	(D)						
35,39												
33120 39	Other rolled and drawn alloy steel products.....	(D)			(D)	-						
	STAINLESS STEEL											
33122 51		71,903			1,361,853	(D)						
	Ingots.....											
	Semifinished shapes and forms:											
33122 53	Blooms, billets, slabs, and sheet bars.....	230,574			1,129,948	7,331	5,617					
33122 55,												
57	Tube rounds and skelp.....	7,251			25,947	(D)	(D)					
33122 59	Wire rods.....	19,478			35,323	(D)	(D)					
	Finished Shapes and Forms:											
	Sheets and strip:											
	Sheets:											
33167 51		4,006			(D)	(D)	(D)					
33123 51	Cold rolled.....	229,292			199,355	(D)	(D)					
	Hot rolled.....											
	Strip:											
33123 59												
33167 55	Hot rolled.....	98,513			63,509	(D)	(D)					
33124 51	Cold rolled.....	(D)			25,544	(D)	(D)					
	Plates.....											
	Bars:											
33124 61	Hot rolled.....	24,947			(D)	(D)	(D)					
33168 51	Cold finished.....	(D)			(D)	(D)	(D)					
	Pipe and tubes:											
	Pressure tubing:											
33176 61												
33176 62	Seamless.....	3,257			5,687	(D)	-					
	Welded.....											
	Mechanical tubing:											
33176 63												
33176 64	Seamless.....	(D)			950	(D)	-					
33155 51	Welded.....	(D)			1,431	(D)	(D)					
	Wire.....	(D)			418	(D)	(D)					
33120 59	Other rolled and drawn stainless steel products.....	(D)			(D)	(D)	(D)					

- Represents zero. (D) Withheld to avoid disclosing figures of individual companies. In some cases, figures which are otherwise publishable are withheld to avoid indirect disclosure by subtraction from higher-level totals or from related figures.

¹Excludes receipts and shipments of steel processed on a conversion basis for non-steel-producing companies. Receipts data represent receipts at producing mills only, but include receipts from both domestic and foreign sources.

²Transfers to other plants of the same company are included with shipments to other companies. Such transfers constituted between 15 and 30 percent for carbon steel electrical sheets and strip, carbon steel wire rope and cable, alloy steel wire rods, and alloy steel electrical sheets and strip. For all other cases, such transfers are less than 5 percent of the total.

³See footnote 2, table 6A-4.

Source: Current Industrial Reports, series MA33B, "Steel Mill Products."

TABLE 6A-4. Net Shipments of Steel Mill Products: 1972 and 1967

Product	Net shipments ¹ (short tons)		Product	Net shipments ¹ (short tons)	
	1972	1967		1972	1967
ALL GRADES, TOTAL.....	89,924,097	84,697,298	Carbon Steel--Continued		
Carbon Steel.....	80,963,202	76,375,951	Finished shapes--Continued		
Ingots and semifinished shapes and forms (blooms, billets, slabs, sheet bars, tinplate bars, tube rounds, skelp, and wire rods).....	2,121,115	2,372,965	Wire products: ²		
Finished shapes:			Nails and staples.....	424,589	368,268
Plates:			Barbed and twisted wire.....	110,931	171,898
Floor plates.....	205,870	180,433	Wire fence, woven and welded.....	380,119	142,147
Plates other than floor plates.....	6,198,735	6,209,918	Bale ties.....	92,973	82,835
Sheets:			Wire rope and cable.....	135,127	136,047
Hot rolled, including enameling sheets.....	13,254,430	8,871,571	Wire strand:		
Cold rolled.....	15,194,460	14,348,958	For prestressed concrete.....	55,967	125,818
Sheets and strip:			Other.....	135,830	
Galvanized:			Woven wire netting.....	58,332	51,303
Hot dipped.....	5,203,311	4,153,194	Other rolled and drawn carbon steel products....	-	341,017
Electrolytic.....	292,419		Alloy Steel, Except Stainless.....	8,064,036	7,470,936
All other metallic coated, including long ternes.....	567,559	333,386	Ingots and semifinished shapes and forms (blooms, billets, slabs, sheet bars, tube rounds, skelp, and wire rods).....	1,115,319	766,482
Electrical.....		48,995	Finished shapes:		
Strip:			Plates and structural shapes.....	1,979,518	1,660,052
Hot rolled.....	920,874	1,442,732	Sheets and strip:		
Cold rolled.....	849,574	1,422,819	Sheets:		
Tin mill products:			Hot rolled.....	502,549	252,392
Electrolytic and hot dipped tin plate.....	4,371,578	5,730,686	Cold rolled.....	64,147	73,300
Black plate.....	475,444	585,756	Hot-dipped galvanized.....	801,128	720,337
Tin-free steel.....	982,918	36,986	Electrical.....		
All other tin mill products, including short ternes and steel foil.....	23,580		Strip:		
Structural shapes (heavy), sheet piling and bearing piles.....	5,212,917	5,901,407	Hot rolled.....	75,886	48,534
Bars:			Cold rolled.....	50,348	34,671
Hot rolled bars except concrete reinforcing.	6,045,966	5,921,656	Bars:		
Light structurals (under 3 in.).....	499,612	(NA)	Hot rolled (including structural shapes under 3 in.).....	2,072,535	1,901,444
Concrete reinforcing bars:			Cold finished.....	232,631	228,172
Rolled from new billets.....	4,185,716	4,124,382	Tool steel:		
Rolled from old materials (rails, axles, etc.).....	193,614	76,440	High speed.....	7,357	27,055
Cold finished bars.....	1,572,039	1,569	Other than high speed.....	51,357	66,668
Tool steel.....	544	6,505	Pipe and tubes:		
Rails, wheels, and track accessories:			Oil country goods.....	320,170	321,357
Rails:			Pressure tubing.....	49,377	60,586
Standard tee (over 60 lb. per yd.).....	906,066	674,129	Mechanical tubing.....	429,134	369,004
All other rails, including light (60 lb. per yd. and under).....	45,382	45,838	Structural.....	(³)	843,056
Joint bars.....	23,145	196,242	Line pipe.....	255,553	
Tie plates.....	200,143		Miscellaneous, including standard pipe.....	³ 15,044	
Wheels, rolled and forged.....	205,354	284,161	Wire:		
Pipe and tubes:			Plain wire.....	41,983	55,430
Standard pipe.....	2,295,227	2,728,563	Galvanized wire.....		
Line pipe.....	1,705,738	2,347,973	Other coated wire.....		42,395
Oil country goods.....	862,540	959,810	Other rolled and drawn alloy steel products....	-	
Pressure tubing:			Stainless Steel.....	896,859	850,411
Seamless.....	85,349	98,419	Ingots and semifinished shapes and forms (blooms, billets, slabs, sheet bars, tube rounds, skelp, and wire rods).....	20,100	13,663
Welded.....	103,427	114,513	Finished shapes:		
Mechanical tubing:			Plates and structurals.....	71,969	74,668
Seamless.....	388,844	383,139	Sheets and strip:		
Welded.....	1,282,558	954,103	Sheets:		
Structurals.....	664,199	424,732	Hot rolled.....	37,696	44,333
Wire:			Cold rolled.....	249,779	186,230
Plain wire.....	1,987,016	2,276,504	Strip:		
Galvanized wire.....	260,083	288,193	Hot rolled.....	3,044	13,054
Other coated wire.....	181,988	202,737	Cold rolled.....	277,119	249,605
			Bars:		
			Hot rolled.....	48,720	51,851
			Cold finished.....	87,781	102,060
			Pipe and tubes:		
			Pressure tubing:		
			Seamless.....	12,476	14,067
			Welded.....	35,796	29,444
			Mechanical tubing:		
			Seamless.....	2,689	4,185
			Welded.....	15,947	13,166
			Wire.....	33,743	47,096
			Other rolled and drawn stainless products.....	-	6,995

See footnotes on next page.

TABLE 6A-4. Net Shipments of Steel Mill Products: 1972 and 1967—Continued

(Footnotes for table 6A-4)

- Represents zero. (NA) Not available.

¹Net shipments are derived by subtracting the steel mills' receipts of each steel mill shape for the total of shipments to other companies, transfers to other plants, and tonnage consumed in steel mills in the production of fabricated products and as maintenance, repair, and operating supplies. For practical purposes, net shipments amount to zero for some products. Due to material in transit, this results in negative figures for a few items. Where products are grouped together for calculation of net shipments, some of the individual products within the group may represent negative figures. In such cases, the negative figures for the individual products were subtracted from the net shipments of the other products and an overall net shipments total is shown.

²Represents wire products produced within steel works and wiredrawing establishments. Such establishments accounted for approximately the following percentages of the total quantity of shipments of these products in 1972 based on data from the 1972 Census of Manufactures: Nails and staples, 76 percent; barbed and twisted wire, 93 percent; woven and welded wire fence, over 95 percent; bale ties, 71 percent; wire rope and cable, 41 percent; and wire strand, over 95 percent. Steel works and wiredrawing establishments accounted for 61 percent of the total value of shipments of woven wire netting.

³Data on structural pipe and tubes are included with Miscellaneous, including standard pipe, to avoid disclosing operations of individual companies.

Source: Current Industrial Reports series MA-33B, "Steel Mill Products."

TABLE 6A-5. Quantity and Value of Pig Iron Shipped by All Producers: 1972 and 1967

Product	Unit of measure	Total product shipments including interplant transfers			
		1972		1967	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
Pig iron, total reported in the census of manufactures ¹	1,000 s. tons	80,719.3	(NA)	82,532.3	(NA)
Pig iron, by grade, total ².....	...do.....	89,048.0	6,890.9	86,819.0	4,965.7
Foundry.....	...do.....	1,417.0	97.9	1,534.0	87.0
Basic.....	...do.....	83,809.0	6,505.4	79,931.0	4,565.1
Bessemer.....	...do.....	1,269.0	94.8	2,844.0	169.3
Low-phosphorous.....	...do.....	105.0	8.0	215.0	13.0
Malleable.....	...do.....	1,998.0	149.3	1,996.0	113.9
All other (not ferroalloys).....	...do.....	450.0	35.5	299.0	17.3

(NA) Not available.

¹Represents total production.²Source: Bureau of Mines, Department of Interior.

TABLE 6A-6. Quantity and Value of Ferroalloys Shipped by All Producers: 1972 and 1967

Product	Unit of measure	Total product shipments including interplant transfers			
		1972		1967	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
Ferroalloys and other additives reported in the census of manufactures ¹	1,000 s. tons	2,867.2	(NA)	2,691.0	(NA)
Ferroalloys, by grade, total ².....	...do.....	2,379.8	567.6	2,507.7	464.6
Ferromanganese.....	...do.....	726.6	126.6	870.8	128.4
Ferrosilicon.....	...do.....	784.4	182.1	603.4	102.0
Ferrophosphorus.....	...do.....	118.5	5.7	107.0	6.1
Ferrotitanium.....	...do.....	4.1	4.6	3.7	2.4
Silvery iron.....	...do.....	163.7	14.8	210.3	16.4
Ferromanganese.....	...do.....	352.0	111.3	299.3	82.0
Silicomanganese.....	...do.....	46.4	28.4	239.7	38.2
Other.....	...do.....	84.0	94.1	173.4	89.1

(NA) Not available.

¹Represents total production.²Source: Bureau of Mines, Department of Interior.

TABLE 6A-7. Production of Raw Steel, by Geographic Area: 1972 and 1967

Division and State	Production of raw steel (1,000 net tons)	
	1972 ¹	1967 ²
UNITED STATES. TOTAL.....	133,241	126,322
New England Division.....	(D)	(D)
Rhode Island.....	(D)	(D)
Connecticut.....	(D)	(D)
Middle Atlantic Division.....	(D)	37,215
New York.....	4,114	7,404
New Jersey.....	(D)	(D)
Pennsylvania.....	30,416	29,810
East North Central Division.....	66,651	57,658
Ohio.....	23,851	20,368
Indiana.....	21,268	17,443
Illinois.....	12,152	10,599
Michigan.....	9,380	9,246
West North Central Division (Minnesota and Missouri).....	(D)	(D)
South Atlantic Division (Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida).....	(D)	12,097
East South Central Division (Kentucky, Mississippi, and Alabama).....	(D)	6,736
West South Central Division (Oklahoma and Texas).....	(D)	2,874
Mountain Division (Colorado, Utah, and Arizona).....	(D)	3,503
Pacific Division.....	(D)	4,644
Washington.....	(D)	(D)
Oregon.....	(D)	587
California.....	3,562	4,056
Hawaii.....	(D)	(D)

Note: States not listed had no raw steel production in either year.

(D) Withheld to avoid disclosing figures for individual companies.

¹Source: American Iron and Steel Institute.

²Source: Current Industrial Reports series MA-33B, "Steel Mill Products."

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COKE OVEN, BLAST FURNACE PRODUCTS, INCLUDING FERROALLOYS (33121, 33131, and 33134)			COKE OVEN, BLAST FURNACE PRODUCTS, INCLUDING FERROALLOYS (33121, 33131, and 33134)--Continued		
United States.....	1,749.7	1,466.9	South Region--Continued		
Northeast Region.....	565.1	527.1	West South Central Division.....	EE	EE
Middle Atlantic Division.....	GG	GG	Louisiana.....	CC	(NA)
New York.....	GG	95.2	Texas.....	CC	CC
Pennsylvania.....	GG	384.4	West Region.....	56.8	45.9
North Central Region.....	730.0	600.8	Mountain Division.....	EE	EE
East North Central Division.....	GG	GG	Utah.....	EE	EE
Ohio.....	GG	233.9	Pacific Division.....	FF	FF
Indiana.....	GG	18.5	California.....	FF	EE
Illinois.....	GG	GG			
Michigan.....	GG	GG	STEEL INGOT AND SEMIFINISHED SHAPES (33122)		
Wisconsin.....	EE	EE	United States.....	2,502.9	2,526.5
West North Central Division.....	FF	EE	Northeast Region.....	1,231.0	1,091.4
Minnesota.....	EE	CC	New England Division.....	FF	(24.5)
Missouri.....	EE	CC	Rhode Island.....	CC	BB
South Region.....	397.8	293.0	Connecticut.....	EE	EE
South Atlantic Division.....	GG	GG	Middle Atlantic Division.....	GG	1,066.9
Maryland.....	CC	EE	New York.....	GG	GG
Virginia.....	EE	7.8	Pennsylvania.....	1,083.7	870.7
West Virginia.....	GG	49.7			
East South Central Division.....	GG	GG	North Central Region.....	1,030.5	1,187.3
Kentucky.....	GG	GG	East North Central Division.....	GG	GG
Tennessee.....	FF	(NA)	Ohio.....	501.4	474.7
Alabama.....	GG	160.9			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
STEEL INGOT AND SEMIFINISHED SHAPES (33122)--Con.			HOT ROLLED BARS AND BAR SHAPES, PLATES, STRUCTURAL SHAPES, AND PILING (33124)--Continued		
North Central Region--Continued			North Central Region.....	2,346.3	GG
East North Central Division--Continued			East North Central Division.....	2,254.3	1,785.7
Indiana.....	GG	GG	Ohio.....	596.5	419.8
Illinois.....	376.4	298.4	Indiana.....	847.0	697.2
Michigan.....	CC	EE	Illinois.....	746.3	597.9
West North Central Division.....	FF	FF	Michigan.....	64.5	70.7
Missouri.....	FF	EE	West North Central Division.....	91.9	FF
South Region.....	179.8	216.9	Minnesota.....	FF	BB
South Atlantic Division.....	100.2	95.0	Missouri.....	FF	FF
Maryland.....	FF	GG			
West Virginia.....	FF	(¹)	South Region.....	907.7	552.3
Georgia.....	BB	CC	South Atlantic Division.....	441.3	264.9
Florida.....	AA	(¹)	Delaware.....	FF	FF
East South Central Division.....	GG	GG	Maryland.....	GG	GG
Kentucky.....	GG	GG	Virginia.....	FF	EE
Tennessee.....	AA	(NA)	West Virginia.....	FF	FF
Alabama.....	BB	CC	North Carolina.....	EE	CC
West South Central Division.....	EE	FF	South Carolina.....	60.3	CC
Oklahoma.....	AA	(NA)	Georgia.....	FF	EE
Texas.....	EE	FF	Florida.....	FF	EE
West Region.....	61.6	31.0	East South Central Division.....	214.2	GG
Mountain Division.....	FF	CC	Kentucky.....	29.8	EE
Colorado.....	EE	CC	Tennessee.....	FF	BB
Utah.....	CC	AA	Alabama.....	157.0	149.6
Pacific Division.....	FF	FF	Mississippi.....	CC	CC
Washington.....	CC	CC	West South Central Division.....	252.2	GG
California.....	31.4	13.2	Arkansas.....	CC	(NA)
			Oklahoma.....	EE	CC
			Texas.....	GG	GG
			West Region.....	370.7	GG
			Mountain Division.....	GG	GG
			Colorado.....	GG	FF
			Utah.....	GG	FF
			Pacific.....	GG	265.6
			Washington.....	FF	FF
			Oregon.....	FF	EE
			California.....	168.7	222.1
			Hawaii.....	CC	CC
			STEEL WIRE (33125 and 33155)		
			United States.....	726.3	678.1
			Northeast Region.....	249.5	246.6
			New England Division.....	(NA)	65.0
			Rhode Island.....	(NA)	AA
			Middle Atlantic Division.....	GG	181.5
			New York.....	(NA)	25.2
			New Jersey.....	(NA)	38.7
			Pennsylvania.....	114.7	117.5
			North Central Region.....	329.9	
			East North Central Division.....	GG	
			Ohio.....	(NA)	
			Indiana.....	(NA)	53.1
			Illinois.....	149.7	169.3
			West North Central Division.....	(NA)	EE
			Minnesota.....	(NA)	AA
			Missouri.....	(NA)	EE
			South Region.....	95.4	GG
			South Atlantic Division.....	(NA)	56.8
			Maryland.....	(NA)	FF
			Georgia.....	(NA)	CC
			East South Central Division.....	(NA)	CC
			Kentucky.....	(NA)	(NA)
			West Region.....	FF	FF
			Mountain Division.....	(NA)	BB
			Colorado.....	(NA)	BB
			Pacific Division.....	FF	FF
			California.....	44.9	26.1
			STEEL PIPE AND TUBES (33126 and 33176)		
			United States.....	2,765.5	2,629.1
			Northeast Region.....	873.3	971.6
			New England Division.....	FF	9.3

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
STEEL PIPE AND TUBES (33126 and 33176)--Continued			COLD FINISHED STEEL BARS AND SHAPES (STEEL MILLS) (33128 and 33168)--Continued		
Northeast Region--Continued			West Region.....	29.5	24.6
Middle Atlantic Division.....	GG	962.3	Mountain Division.....	CC	CC
New York.....	FF	42.7	Colorado.....	CC	CC
Pennsylvania.....	785.5	881.9	Pacific Division.....	FF	EE
North Central Region.....	1,216.3	993.7	California.....	FF	EE
East North Central Division.....	GG	979.7			
Ohio.....	691.7	622.2	OPEN-DIE PRESS AND HAMMER STEEL FORGINGS (33129 and 34629)		
Indiana.....	GG	99.5	United States.....	524.5	462.9
Illinois.....	185.7	101.2			
Wisconsin.....	GG	75.5	Northeast Region.....	301.5	280.2
South Region.....	482.0	GG	New England Division.....	CC	EE
South Atlantic Division.....	GG	GG	Connecticut.....	CC	CC
Maryland.....	FF	FF	Middle Atlantic Division.....	GG	GG
East South Central Division.....	GG	120.9	Pennsylvania.....	GG	249.3
Kentucky.....	FF	FF			
Alabama.....	FF	78.9	North Central Region.....	GG	122.6
West South Central Division.....	GG	193.5	East North Central Division.....	GG	GG
Texas.....	GG	GG	Ohio.....	GG	67.8
West Region.....	193.9	GG	Illinois.....	FF	18.9
Mountain Division.....	GG	GG			
Colorado.....	FF	FF	South Region.....	FF	27.3
Utah.....	FF	FF	West South Central Division.....	FF	FF
Pacific Division.....	GG	GG	Texas.....	FF	FF
California.....	GG	GG			
COLD ROLLED SHEET AND STRIP (33127 and 33167)			West Region.....	CC	32.8
United States.....	4,037.9	3,161.9	Pacific Division.....	FF	FF
			Washington.....	CC	CC
Northeast Region.....	1,196.1	842.2	NONINSULATED FERROUS WIRE ROPE AND STRAND (33151 and 34961)		
Middle Atlantic Division.....	1,081.6	738.3	United States.....	366.9	246.0
New York.....	GG	154.8			
New Jersey.....	FF	18.7	Northeast Region.....	145.0	131.6
Pennsylvania.....	875.7	564.8	New England Division.....	21.7	37.9
North Central Region.....	2,443.2	1,995.4	Massachusetts.....	BB	FF
East North Central Division.....	2,443.2	1,995.4	Rhode Island.....	BB	(NA)
Ohio.....	1,172.9	872.1	Connecticut.....	EE	EE
Indiana.....	GG	539.2	Middle Atlantic Division.....	123.2	93.7
Illinois.....	GG	71.2	New York.....	8.4	3.8
Michigan.....	GG	512.7	New Jersey.....	45.8	33.5
South Region.....	315.5	286.9	Pennsylvania.....	69.1	56.4
South Atlantic Division.....	GG	GG			
Maryland.....	GG	GG	North Central Region.....	137.8	62.8
West Virginia.....	GG	GG	East North Central Division.....	86.1	FF
East South Central Division.....	GG	GG	Ohio.....	7.7	3.3
Kentucky.....	EE	FF	Indiana.....	EE	BB
Alabama.....	GG	FF	Illinois.....	42.6	13.4
West Region.....	83.1	37.4	Wisconsin.....	EE	CC
Pacific Division.....	GG	37.4	West North Central Division.....	51.7	FF
California.....	GG	37.4	Minnesota.....	BB	FF
			Missouri.....	FF	(NA)
COLD FINISHED STEEL BARS AND SHAPES (STEEL MILLS) (33128 and 33168)					
United States.....	827.6	629.2	South Region.....	61.0	27.7
Northeast Region.....	336.6	269.2	South Atlantic Division.....	36.8	22.0
New England Division.....	FF	41.0	Maryland.....	EE	10.2
Connecticut.....	FF	34.4	Georgia.....	BB	(NA)
Middle Atlantic Division.....	GG	228.2	Florida.....	EE	BB
New York.....	FF	FF	East South Central Division.....	EE	(NA)
Pennsylvania.....	248.2	168.2	Kentucky.....	CC	(NA)
North Central Region.....	428.9	310.4	Tennessee.....	BB	(NA)
East North Central Division.....	428.9	310.4	Alabama.....	CC	(NA)
Ohio.....	GG	120.5			
Indiana.....	GG	89.4	West Region.....	23.1	23.9
Illinois.....	GG	62.5	Mountain Division.....	BB	BB
Michigan.....	GG	FF	Colorado.....	BB	BB
South Region.....	32.6	25.0	Pacific Division.....	EE	EE
South Atlantic Division.....	EE	EE	California.....	EE	EE
Maryland.....	EE	EE			
East South Central Division.....	FF	BB	STEEL NAILS AND SPIKES (33152)		
Alabama.....	CC	AA	United States.....	253.0	158.8
			Northeast Region.....	39.7	35.8
			New England Division.....	28.0	22.2
			New Hampshire.....	CC	CC
			Massachusetts.....	CC	4.9
			Rhode Island.....	EE	EE

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
STEEL NAILS AND SPIKES (33152)--Continued			FERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (33157 and 34964)		
Northeast Region--Continued			United States.....		
Middle Atlantic Division.....	11.8	13.6		128.9	89.3
New York.....	BB	7.1			
New Jersey.....	5.2	BB	Northeast Region.....	32.9	23.7
Pennsylvania.....	BB	BB	New England Division.....	EE	10.2
			Massachusetts.....	CC	BB
North Central Region.....	163.8	86.0	Rhode Island.....	BB	AA
East North Central Division.....	GG	GG	Connecticut.....	CC	BB
Ohio.....	FF	17.5	Middle Atlantic Division.....	EE	13.5
Indiana.....	EE	CC	Pennsylvania.....	EE	7.9
Illinois.....	87.9	49.4			
Wisconsin.....	BB	AA	North Central Region.....	56.2	39.8
West North Central Division.....	EE	CC	East North Central Division.....	FF	FF
Minnesota.....	BB	BB	Illinois.....	FF	18.8
Missouri.....	CC	CC			
			South Region.....	EE	17.4
South Region.....	24.6	20.4	East South Region.....	BB	CC
South Atlantic Division.....	EE	11.6	Kentucky.....	AA	BB
Maryland.....	CC	CC			
West Virginia.....	BB	AA	West Region.....	FF	8.5
North Carolina.....	BB	AA	Pacific Division.....	EE	CC
Georgia.....	BB	BB	California.....	EE	5.8
East South Central Division.....	CC	CC			
Alabama.....	CC	CC	OTHER FABRICATED WIRE PRODUCTS (33159 and 34969)		
			United States.....		
West Region.....	25.0	16.6		847.5	668.2
Mountain Division.....	EE	CC			
Colorado.....	EE	CC	Northeast Region.....	256.3	196.6
Pacific Division.....	EE	CC	New England Division.....	36.0	35.7
Oregon.....	BB	(¹)	Massachusetts.....	EE	9.6
California.....	EE	CC	Connecticut.....	EE	24.1
			Middle Atlantic Division.....	220.3	160.9
FENCING AND FENCE GATES (33156 and 34966)			New York.....	62.5	43.9
			New Jersey.....	32.7	33.9
United States.....	245.6	130.8	Pennsylvania.....	125.1	83.1
Northeast Region.....	19.4	7.6	North Central Region.....	310.0	290.8
New England Division.....	CC	BB	East North Central Division.....	229.6	227.6
Connecticut.....	CC	(NA)	Ohio.....	34.4	37.9
Middle Atlantic Division.....	EE	BB	Indiana.....	41.7	35.7
Pennsylvania.....	BB	(NA)	Illinois.....	83.6	106.1
			Michigan.....	GG	41.0
North Central Region.....	91.8	54.4	Wisconsin.....	EE	6.9
East North Central Division.....	GG	42.8			
Ohio.....	EE	11.0	West North Central Division.....	80.5	63.1
Indiana.....	FF	CC	Minnesota.....	FF	15.8
Illinois.....	FF	19.8	Iowa.....	CC	10.0
West North Central Division.....	EE	11.6	Missouri.....	FF	30.8
Missouri.....	EE	CC			
			South Region.....	188.1	113.5
South Region.....	99.1	43.6	South Atlantic Division.....	93.0	49.0
South Atlantic Division.....	FF	18.5	Delaware.....	EE	CC
Maryland.....	EE	EE	Maryland.....	FF	19.1
North Carolina.....	BB	(NA)	Virginia.....	AA	(NA)
South Carolina.....	BB	(NA)	South Carolina.....	EE	(NA)
Georgia.....	CC	BB	Georgia.....	EE	5.9
Florida.....	CC	AA	Florida.....	18.3	12.1
East South Central Division.....	FF	CC			
Kentucky.....	AA	(NA)	East South Central Division.....	53.7	41.6
Alabama.....	AA	CC	Tennessee.....	FF	15.5
West South Central Division.....	FF	EE	Alabama.....	EE	18.8
Louisiana.....	BB	(NA)			
Oklahoma.....	EE	BB	West South Central Division.....	41.2	22.9
Texas.....	FF	15.4	Louisiana.....	BB	BB
			Texas.....	EE	10.4
West Region.....	35.3	25.2	West Region.....	93.3	67.3
Mountain Division.....	EE	BB	Mountain Division.....	EE	FF
Colorado.....	EE	BB	Colorado.....	EE	FF
Utah.....	AA	(NA)	Pacific Division.....	GG	FF
Pacific Division.....	FF	FF	Washington.....	CC	3.8
California.....	20.0	FF	California.....	GG	40.2

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not Available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3312-	Blast furnaces and steel mills ²	22,210.5	20,228.2	19,918.2	20,566.7	19,514.4	18,102.3	15,668.7	12,676.7
33121	Coke oven and blast furnace products.....	1,497.3	1,507.2	1,549.4	1,436.7	1,320.9	1,257.4	1,484.9	1,150.3
33122	Steel ingot and semifinished shapes.....	2,502.9	2,356.0	2,668.8	3,093.9	2,676.1	2,526.5	2,034.7	1,846.9
33123	Hot-rolled sheet and strip, including tin mill products....	6,740.1	5,558.4	5,260.3	5,070.0	4,854.9	4,533.3	3,969.8	3,169.3
33124	Hot-rolled bars and bar shapes, plates, structural shapes, and piling.....	5,612.8	4,964.2	4,897.8	4,978.4	4,765.2	4,456.4	3,667.7	2,879.7
33125	Steel wire (produced in steel mills).....	397.6	325.5	319.2	341.5	357.2	377.6	364.0	350.2
33126	Steel pipe and tubes (produced in steel mills).....	1,501.0	1,399.1	1,433.5	1,645.2	1,694.0	1,554.1	1,137.5	993.3
33127	Cold-rolled steel sheet and strip (produced in steel mills)	3,134.1	3,234.3	2,956.1	3,102.3	2,999.0	2,607.0	2,464.4	1,838.4
33128	Cold-finished steel bars and bar shapes (produced in steel mills).....	268.7	257.3	228.6	250.6	226.7	256.6	199.4	130.6
33129	Press and hammer steel forgings (produced in steel mills)..	266.1	215.7	218.0	235.7	229.1	208.6	120.7	119.5
33120	Other steel mill products except wire products and those not specified by kind.....	289.9	410.9	386.5	412.4	391.3	324.8	225.8	198.5
3313-	Electrometallurgical products ²	552.3	519.4	527.7	484.6	416.7	403.4	411.6	374.1
33131	Ferromanganese (not made in steel mills).....	252.4	243.7	233.2	241.7	206.7	194.1	246.4	(NA)
33134	Other ferroalloys produced in electric furnaces (not made in steel mills).....								
33132	Ferrochrome.....								
33133	Ferrosilicon (not made in steel mills).....	116.6	131.4	125.8	111.2	92.3	104.5	85.3	(NA)
33130	Electrometallurgical products, n.s.k.....	180.8	135.4	135.6	129.3	115.4	102.9	78.1	(NA)
33130	Electrometallurgical products, n.s.k.....	2.5	8.9	33.1	2.4	2.3	1.9	1.8	(NA)
3315-	Steel wire and related products ²	1,512.6	1,265.2	1,202.1	1,191.7	1,154.6	1,062.3	796.5	691.3
33151	Noninsulated ferrous wire, rope, and cable (made in 3312 and 3315).....	270.2	217.6	219.0	200.3	187.3	164.2	100.9	94.1
33152	Steel nails and spikes.....	248.5	201.1	177.0	194.9	184.7	158.8	153.1	159.4
33155	Steel wire (not produced in steel mills).....	328.7	316.6	312.2	329.9	333.6	300.5	257.6	214.6
33156	Fencing and fence gates (made in 3312 and 3315).....	172.1	116.1	104.6	92.1	88.6	75.8	58.3	48.0
33157	Ferrous wire cloth and other woven wire products (made in 3312 and 3315).....	53.6	53.7	51.8	49.7	41.4	35.4	24.3	25.9
33159	Other fabricated wire products (made in 3312 and 3315)....	390.0	346.7	324.4	314.0	310.2	294.4	181.6	143.2
33150	Steel wire and related products, n.s.k.....	49.5	(13.4)	(13.1)	(10.8)	(8.8)	33.2	20.7	6.1
3316-	Cold-rolled steel shapes ²	1,487.1	1,161.3	1,097.4	1,176.9	1,050.1	945.8	681.9	461.5
33167	Cold-rolled steel sheet and strip, (not produced in steel mills).....	903.8	773.3	708.9	692.9	630.0	554.9	408.5	253.2
33168	Cold-finished steel bars and bar shapes (not produced in steel mills).....	558.9	378.8	384.2	461.9	399.4	372.6	273.4	208.3
33160	Cold-rolled steel shapes, not specified by kind (not produced in steel mills).....	24.4	5.2	4.3	22.1	20.7	18.3	-	-
3317-	Steel pipe and tubes (not produced in steel mills) ²	1,264.5	1,118.4	1,056.0	1,183.1	1,153.7	1,075.0	750.0	730.3
Product Classes Primary to Two Industries or More (The share from each industry is shown in addition to the total for all industries)									
33125	Steel Wire, total for all industries.....	726.3	642.1	631.4	671.4	690.8	678.1	621.6	564.8
33155	Made in steel mills (industry 3312).....	397.6	325.5	319.2	341.5	357.2	377.6	364.0	350.2
33155	Made in steel wire drawing (industry 3315) and other industries.....	328.7	316.6	312.2	329.9	333.6	300.5	257.6	214.6
33126	Steel Pipe and Tube, total for all industries.....	2,765.5	2,517.5	2,489.5	2,828.3	2,847.7	2,629.1	1,887.5	1,723.6
33126	Made in steel mills (industry 3312).....	1,501.0	1,399.1	1,433.5	1,645.2	1,694.0	1,554.1	1,137.5	993.3
33176	Made in steel pipe and tubes (industry 3317) and other industries.....	1,264.5	1,118.4	1,056.0	1,183.1	1,153.7	1,075.0	750.0	730.3
33127	Cold-rolled steel sheet and strip, total for all industries..	4,037.9	4,011.6	3,665.0	3,795.2	3,629.0	3,161.9	2,872.9	2,091.6
33127	Cold-rolled steel sheet and strip, produced in steel mills (industry 3312).....	3,134.1	3,234.3	2,956.1	3,102.3	2,999.0	2,607.0	2,464.4	1,838.4
33167	Cold-rolled steel sheet and strip, made in cold finishing of steel shapes (industry 3315) and other industries.....	903.8	777.3	708.9	692.9	630.0	554.9	408.5	253.2
33128	Cold-finished steel bars and bar shapes, total for all industries.....	827.6	636.1	612.8	712.5	626.1	629.2	472.8	338.9
33128	Cold-finished steel bars and bar shapes, made in steel mills (industry 3312).....	268.7	257.3	228.6	250.6	226.7	256.6	199.4	130.6
33168	Cold-finished steel bars and bar shapes, made in cold finishing of steel shapes (industry 3316) and other industries.....	558.9	378.8	384.2	461.9	399.4	372.6	273.4	208.3
33129	Press and Hammer Steel Forgings, total for all industries....	524.6	394.8	479.1	533.7	500.0	462.9	294.4	220.9
34629	Made in steel works (industry 3312).....	266.1	215.7	218.0	235.7	229.1	208.6	120.7	119.5
34629	Made in steel forgings (industry 3462) and other industries	258.5	179.1	261.1	298.0	270.9	254.3	173.7	101.4
33133	Ferrosilicon.....	180.8	135.4	135.6	129.3	115.4	102.9	78.1	(NA)
33131	Ferromanganese.....	294.5	(NA)	(NA)	(NA)	(NA)	273.1	264.4	(NA)
33134	Other ferroalloys produced in electric furnaces.....								
33121, part	Blast furnace ferroalloys.....								
33151	Noninsulated Ferrous Wire Rope, Cable, and Strand, total for all industries.....	366.6	298.0	301.1	291.7	276.0	246.0	189.9	163.4
34961	Made in industries 3312 and 3315.....	270.2	217.6	219.0	200.3	187.3	164.2	100.9	94.1
34961	Made in fabricated wire products, n.e.c. (industry 3496) and other industries.....	96.4	80.4	82.1	91.4	88.7	81.8	89.0	69.3
33156	Fencing and Fence Gates, total for all industries.....	245.6	175.0	(166.3)	139.1	148.1	130.9	115.4	103.3
34966	Made in industries 3312 and 3315.....	172.1	116.1	104.6	92.1	88.6	75.8	58.3	48.0
34966	Made in fabricated wire products, n.e.c. (industry 3496) and other industries.....	73.5	58.9	(61.7)	47.0	59.5	55.1	57.1	55.3

See footnotes at end of table.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972—Continued

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
	Product Classes Primary to Two Industries or More--Continued (The share from each industry is shown in addition to the total for all industries.)								
	Ferrous Wire Cloth and Other Woven Ferrous Wire Products, total for all industries.....	128.9	137.2	134.6	106.3	90.6	89.3	72.3	³ 81.6
33157	Made in industries 3312 and 3315.....	53.6	53.7	51.8	49.7	41.4	35.4	24.3	25.9
34964	Made in fabricated wire products, n.e.c. (industry 3496) and other industries).....	75.3	83.5	82.8	56.6	49.2	53.9	48.0	³ 55.7
33159	Other Fabricated Wire Products, total for all industries.....	847.5	814.5	748.6	786.7	752.1	668.9	501.6	405.7
33159	Made in industries 3312 and 3315.....	390.0	346.7	324.4	314.0	310.2	294.4	181.6	143.2
34969	Made in fabricated wire products, n.e.c. (industry 3496) and other industries.....	457.5	467.8	424.2	472.7	441.9	374.5	320.0	262.5

- Represents zero. (NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Some or all of the products primary to this industry are also primary to one or more other industries. The 4-digit product-group totals exclude the values produced by the other primary industries, and, therefore, are not comparable to product-group (4-digits) and product class (5-digits) totals shown in table 6A-1 and table 6B, respectively.

³In 1958, combined data were collected for ferrous and nonferrous woven wire products. This estimate of ferrous wire cloth is based on the ratio of ferrous cloth to total wire cloth and other woven wire products for 1963.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3312.--BLAST FURNACES AND STEEL MILLS					
	Materials, containers, and supplies, total.....		(X)	12,293.4	(X)	¹ 9,829.1
121120	Coal used in the production of coke.....	1,000 s. tons.	85,691.0	1,422.9	91,867.2	879.8
101112	Iron ore, including manganiferous: Crude.....	Gross wt. 1,000 s. tons.	51,614.7	695.9	80,700.9	807.8
101123	Concentrates.....	...do.....	15,714.8	224.7	14,898.6	165.7
101125	Agglomerates.....	...do.....	64,618.9	997.0	47,386.5	623.1
106112	Manganese ore including ferruginous (containing 10 percent manganese).....	...do.....	(²)	(²)	(²)	(²)
331051	Pig iron ³	1,000 s. tons.	9,147.7	500.0	10,688.1	420.5
999811	Iron and steel purchased scrap (except rolls for rerolling).....	...do.....	33,446.0	1,030.4	26,690.3	730.1
331081	Steel rails for rerolling.....	...do.....	263.5	13.7	370.7	19.9
999808	Aluminum and aluminum-base alloy scrap and dress (except home scrap). Nonferrous metals, alloys and ferroalloys:	...do.....	70.3	1.9	(²)	(²)
333402	Aluminum.....	...do.....	89.8	43.2	71.4	33.7
333113	Copper, including both refined, unalloyed and copper-base alloy raw materials.....	...do.....	9.1	8.2	24.0	20.6
333971	Nickel.....	...do.....	54.0	132.1	42.9	72.2
333975	Tin.....	...do.....	25.7	86.8	34.3	105.0
333232	Lead.....	...do.....	8.3	3.0	9.0	3.0
333348	Zinc.....	...do.....	282.1	101.4	278.3	80.9
333981	Cobalt.....	Pounds.....	.9	4.6	(NA)	(NA)
331312	Ferromanganese ⁴	1,000 s. tons.	1,035.8	188.9	912.8	146.9
331320	Ferrochromium.....	...do.....	326.5	105.4	289.3	83.8
331330	Ferrosilicon.....	...do.....	281.8	61.1	252.0	44.4
331343	Ferromolybdenum.....	...do.....	8.7	25.9	11.3	31.5
331340	Spiegeleisen ⁵.....	...do.....	10.6	1.1	15.1	1.4
331345	Ferronickel.....	...do.....	53.2	60.2	45.2	41.9
331351	Ferrotungsten.....	...do.....	.7	4.4		
331353	Ferrovandium.....	...do.....	6.1	32.6	211.4	97.0
331342	Other ferroalloys, including silvery iron.....	...do.....	179.3	82.9		
329502	Dead-burned magnesia.....	...do.....	19.2	1.9	(²)	(²)
281930	Sulfuric acid (100 percent H ₂ SO ₄) ⁶.....	...do.....	858.6	24.9	1,088.8	27.6
281340	Oxygen (including both high and low purity) ⁷	Million cu. ft.	190,701.2	117.0	147,801.6	94.4
325501	Clay refractories.....	1,000 s. tons.	1,528.6	107.0	1,323.6	82.9

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3312.--BLAST FURNACES AND STEEL MILLS--Continued					
	Materials, containers, and supplies--Continued					
329701	Nonclay refractories.....	...do.....	1,628.7	122.9	2,938.8	120.0
332161	Gray iron ingot molds and stools ⁸.....	...do.....	2,225.7	185.9	1,672.6	129.8
	Fluxes:					
329503	Limestone.....	...do.....	17,588.7	60.3	18,861.6	55.4
327403	Lime, including quicklime and dead-burned dolomite.....	...do.....	6,435.5	107.8	5,611.5	70.5
329505	Fluorspar.....	...do.....	509.7	36.7	400.3	16.7
329506	Other fluxes.....	...do.....	8,052.6	50.7	5,288.7	27.0
331005	Ingots, semifinished shapes (blooms, billets, etc.) and other steel shapes received for further processing.....	.....	(X)	2,305.5	(X)	2,347.4
970099	All other materials and components, parts, containers and supplies consumed.....	.....	(X)	3,279.6	(X)	2,410.1
976000	Materials and components, parts, containers and supplies consumed, n.s.k. ⁹.....	.....	(X)	64.9	(X)	38.1
	INDUSTRY 3313.--ELECTROMETALLURGICAL PRODUCTS					
	Materials, containers, and supplies, total.....	.....	(X)	264.6	(X)	220.1
106112	Manganese ore.....	Gross wt. 1,000 s. tons	794.2	22.3	453.9	18.6
325501	Clay refractories.....	1,000 s. tons.	(NA)	.9	(NA)	1.2
329701	Nonclay refractories.....	...do.....	9.6	.9	(NA)	1.2
	Ferroalloys:					
331312	Ferromanganese.....	...do.....	(D)	(D)	(D)	(D)
331330	Ferrosilicon.....	...do.....	(D)	(D)	(D)	(D)
331342	Other ferroalloys.....	...do.....	(D)	(D)	(D)	(D)
999811	Iron and steel purchased scrap.....	...do.....	558.4	14.9	628.3	20.0
970099	All other materials, parts, and supplies.....	.....	(X)	219.6	(X)	¹⁰ 147.9
976000	Materials, parts, and supplies, n.s.k. ⁹.....	.....	(X)	1.9	(X)	32.4
	INDUSTRY 3315.--STEEL WIRE AND RELATED PRODUCTS					
	Materials, containers and supplies, total.....	.....	(X)	584.5	(X)	433.4
	Nonferrous metals, alloys and ferroalloys:					
333113	Copper, including both refined unalloyed and copper-base alloy raw material.....	1,000 s. tons.	11.7	13.4	2.0	2.3
333975	Tin.....	...do.....	(NA)	.4	(NA)	.9
333232	Lead.....	...do.....	3.2	1.0	3.5	1.0
333348	Zinc.....	...do.....	23.7	7.9	15.1	4.3
281930	Sulfuric acid (100 percent H ₂ SO ₄).....	...do.....	16.0	.6	(NA)	.6
	Steel for drawing wire:					
	Rods:					
331061	Carbon steel.....	...do.....	1,440.6	227.3	1,259.7	187.8
331063	Alloy steel (except stainless).....	...do.....	31.3	9.6	31.2	8.4
331065	Stainless steel.....	...do.....	12.4	14.5	15.2	15.5
	Wire for redrawing:					
331073	Carbon steel.....	...do.....	167.7	39.3	80.2	18.9
331075	Alloy steel.....	...do.....	(NA)	1.5	(NA)	.5
331077	Stainless steel.....	...do.....	2.6	4.1	.4	.9
331079	Other steel mill shapes for drawing wire.....	...do.....	5.7	1.7	4.6	1.7
331005	Ingots, semifinished shapes (blooms, billets, etc.) and other steel shapes received for further process, except for drawing wire....	.....	(X)	21.3	(X)	16.0
970099	All other materials and components, parts, containers and supplies consumed.....	.....	(X)	191.4	(X)	137.3
976000	Materials, n.s.k. ⁹.....	.....	(X)	50.5	(X)	37.3

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Total cost of materials, etc., contains extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments in the same industry. For the industry as a whole, the extent of this duplication is approximated by totaling the cost of pig iron, and ingots, and semifinished shapes purchased for further processing. Estimated unduplicated cost of materials obtained by this method is \$9,487 million. The comparable 1967 figure was \$7,061 million.

²Included with material code 970099, "All other materials and components, parts, containers, and supplies consumed," to avoid disclosing figures of individual companies.

³In addition, pig iron produced and consumed in the same establishment in 1972 was 73,126 thousand short tons. In 1967, the comparable figure was 70,547 thousand short tons.

⁴In addition, 277 thousand short tons of ferromanganese were produced and consumed in the same establishment in 1972.

⁵Excludes spiegeleisen produced and consumed in the same establishment.

⁶Excludes sulfuric acid produced and consumed in the same establishment.

⁷In addition, 16,731 million cubic feet of oxygen were produced and consumed in the same establishment in 1972. For 1967 the comparable figure was 10,981 million cubic feet.

⁸Excludes gray iron ingot molds produced and consumed in the same establishment.

⁹This item represents the total cost of materials for establishments that did not report detailed materials data.

¹⁰Includes cost for materials indicated by the symbol (D).

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3312.--BLAST FURNACES AND STEEL MILLS						
	Purchased fuels and electric energy.....		(X)	1,152.2	(X)	877.3
	Purchased fuels, total.....		(X)	741.7	(X)	606.4
121005	Coal.....	1,000 s. tons....	5,085.0	48.0	5,719.1	39.3
331212	Coke.....	..do.....	10,240.4	215.7	11,017.2	170.7
	Fuel oil, total.....	1,000 bbl (42 gal)	27,780.3	117.0	30,858.7	100.2
291141	Distillate.....	..do.....	11,354.0	49.5	11,924.9	38.6
291151	Residual.....	..do.....	16,426.4	67.6	18,933.8	61.6
131300	Natural gas.....	Billion ft ³	632.8	316.1	711.8	257.4
960011	Other fuels.....		(X)	41.2	(X)	19.4
975000	Fuels, n.s.k.....		(X)	3.7	(X)	19.4
960012	Purchased electric energy.....	Million kWh.....	40,258.9	410.5	34,794.8	270.9
	Quantity of electric energy generated less quantity sold....	..do.....	(D)	-	6,332.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	408.2	-	272.2	-
INDUSTRY 3313.--ELECTROMETALLURGICAL PRODUCTS						
	Purchased fuels and electric energy.....		(X)	64.8	(X)	50.5
	Purchased fuels, total.....		(X)	19.2	(X)	14.4
121005	Coal.....	1,000 s. tons....	1,942.7	14.9	(D)	(D)
331212	Coke.....	..do.....	42.9	1.4	(D)	(D)
	Fuel oil, total.....	1,000 bbl (42 gal)	111.7	.6	60.9	.2
291141	Distillate.....	..do.....	111.6	.6	(D)	(D)
291151	Residual.....	..do.....	.1	-	(D)	(D)
131300	Natural gas.....	Billion ft ³	2.3	1.1	2.5	1.7
960011	Other fuels.....		(X)	1.1	(X)	(D)
975000	Fuels, n.s.k.....		(X)	-	(X)	(D)
960012	Purchased electric energy.....	Million kWh.....	7,688.8	45.6	7,852.0	36.1
	Quantity of electric energy generated less quantity sold....	..do.....	3,268.1	-	3,353.7	-
	Total energy used for heat and power.....	Bil. kWh equiv....	24.0	-	20.5	-
INDUSTRY 3315.--STEEL WIRE AND RELATED PRODUCTS						
	Purchased fuels and electric energy.....		(X)	16.9	(X)	(NA)
	Purchased fuels, total.....		(X)	7.4	(X)	(NA)
121005	Coal.....	1,000 s. tons....	10.1	.1	(D)	(D)
331212	Coke.....	..do.....	1.0	(Z)	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	221.9	1.0	335.2	1.0
291141	Distillate.....	..do.....	120.7	.6	241.9	.7
291151	Residual.....	..do.....	101.2	.4	93.3	.3
131300	Natural gas.....	Billion ft ³	8.8	5.1	5.2	4.0
960011	Other fuels.....		(X)	.3	(X)	.1
975000	Fuels, n.s.k.....		(X)	.9	(X)	(D)
960012	Purchased electric energy.....	Million kWh.....	715.5	9.5	608.1	7.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	83.6	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.5	-	2.5	-
INDUSTRY 3316.--COLD FINISHING OF STEEL SHAPES						
	Purchased fuels and electric energy.....		(X)	17.3	(X)	15.7
	Purchased fuels, total.....		(X)	8.8	(X)	7.5
121005	Coal.....	1,000 s. tons....	27.0	.3	77.0	.5
331212	Coke.....	..do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	203.8	.8	189.7	.6
291141	Distillate.....	..do.....	113.4	.4	125.3	.4
291151	Residual.....	..do.....	90.4	.4	64.4	.2
131300	Natural gas.....	Billion ft ³	8.3	5.8	8.0	4.8
960011	Other fuels.....		(X)	.7	(X)	.2
975000	Fuels, n.s.k.....		(X)	1.3	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	679.4	8.5	759.8	8.2
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(Z)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.7	-	2.8	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3317.--STEEL PIPE AND TUBES					
	Purchased fuels and electric energy.....		(X)	14.8	(X)	13.8
	Purchased fuels, total.....		(X)	7.1	(X)	6.9
121005	Coal.....	1,000 s. tons.....	29.7	.3	28.3	.2
331212	Coke.....	do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	85.6	.4	169.3	.7
291141	Distillate.....	do.....	61.8	.3	81.7	.4
291151	Residual.....	do.....	26.8	.1	87.6	.3
131300	Natural gas.....	Billion ft³.....	9.3	5.4	8.3	4.7
960011	Other fuels.....		(X)	.7	(X)	.1
975000	Fuels, n.s.k.....		(X)	.3	(X)	1.2
960012	Purchased electric energy.....	Million kWh.....	588.9	7.7	584.2	6.9
	Quantity of electric energy generated less quantity sold....	do.....	1.0	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.1	-	2.1	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown.

TABLE 8A. Blast Furnaces and Steel Mills (SIC 3312)—Departmental Operations by Degree of Integration: 1972 and 1967

Department	Man-hours of production workers (millions)						Production worker wages (million dollars)					
	Total	Fully integrated works ¹	Partially integrated works ¹			Non-integrated works ¹	Total	Fully integrated works ¹	Partially integrated works ¹			Non-integrated works ¹
			Total	With blast furnace	Without blast furnace				Total	With blast furnace	Without blast furnace	
	1972											
All departments, total.....	739.1	410.1	225.4	73.4	152.0	103.6	4,254.3	2,382.5	1,283.3	413.6	869.7	588.4
Coke ovens.....	34.9	24.6	-	-	-	10.3	185.0	131.8	-	-	-	53.2
Blast furnaces.....	37.3	23.7	8.5	8.5	-	5.0	200.1	129.0	45.6	45.6	-	25.5
Steel department (furnaces).....	65.6	33.0	32.3	10.1	22.2	.4	409.1	197.6	209.6	60.6	149.0	1.9
Rolling and finishing mills:												
Sheet and strip mill.....	78.3	39.4	33.4	18.0	15.4	5.4	473.5	243.4	197.1	105.0	92.1	33.0
Tin mill.....	22.8	18.8	(²)	(²)	(²)	2.7	131.8	108.2	(²)	(²)	(²)	16.2
Bar mill, including rebars.....	64.5	36.0	20.9	5.2	15.7	7.5	360.4	206.5	110.0	23.9	86.1	43.9
Wiredrawing mill.....	15.6	7.3	6.2	-	6.2	2.2	89.3	40.8	35.4	-	35.4	13.1
Pipe mill.....	23.4	14.7	(²)	(²)	(²)	4.3	128.5	77.4	(²)	(²)	(²)	28.7
Other mills, including semifinishing, plate and structural....	81.8	45.3	² 37.8	² 14.7	² 23.1	4.5	486.2	263.6	² 229.7	² 75.7	² 154.0	22.7
Foundry (iron or steel).....	5.0	2.8	5.3	.9	4.4	1.4	26.7	15.5	26.1	4.6	21.5	7.5
Forging (presses, hammers, or upsetters).....	5.7	1.2					29.1	6.6				
Other manufacturing or fabricating departments (nuts, bolts, containers, etc.).....	25.8	4.2	17.7	.9	16.8	3.9	145.1	24.0	97.6	5.7	91.9	23.6
Service or auxiliary operations and all other activities.....	278.4	159.1	63.3	15.1	48.2	56.0	1,589.5	938.1	332.2	92.5	239.7	319.1

See footnotes at end of table.

**TABLE 8A. Blast Furnaces and Steel Mills (SIC 3312)—Departmental Operations by Degree of Integration:
1972 and 1967—Continued**

Department	Man-hours of production workers (millions)						Production worker wages (million dollars)					
	Total	Fully integrated works ¹	Partially integrated works ¹			Non-integrated works ¹	Total	Fully integrated works ¹	Partially integrated works ¹			Non-integrated works ¹
			Total	With blast furnace	Without blast furnace				Total	With blast furnace	Without blast furnace	
	1967											
All departments, total.....	845.4	459.1	273.6	89.7	183.9	113.3	3,368.4	1,855.7	1,071.6	342.6	729.0	441.1
Coke ovens.....	40.6	23.9	-	-	-	16.7	143.5	93.8	-	-	-	49.7
Blast furnaces.....	42.2	25.8	6.6	6.6	-	9.0	161.1	100.6	26.6	26.6	-	31.5
Steel department.....	82.0	45.5	29.1	8.1	21.0	-	320.3	178.2	119.5	33.1	86.4	-
Rolling and finishing mills:												
Sheet and strip mill.....	96.9	53.0	28.9	10.6	18.3	15.0	403.0	219.6	120.0	44.4	75.6	63.4
Tin mill.....	22.2	16.9	-	-	-	5.3	90.5	70.4	-	-	-	20.1
Bar mill, including rebars.....	60.3	34.5	20.1	(²)	(²)	5.7	233.9	133.2	78.4	(²)	(²)	22.3
Wiredrawing mill.....	18.1	7.0	7.0	-	7.0	4.1	70.0	26.8	27.8	-	27.8	15.4
Pipe mill.....	43.6	22.1	10.9	-	10.9	10.6	163.2	82.1	39.5	-	39.5	41.6
Other mills, including semi-finish- ing plate and structural...	92.3	48.6	35.8	² 17.6	² 38.3	7.9	373.3	191.9	150.3	² 74.3	² 154.4	31.1
Foundry (iron or steel).....	7.5	4.5	9.1	2.6	24.1	1.2	28.7	17.2	34.4	10.5	87.8	4.1
Forging (presses, hammers or upsetters).....	9.1	1.8					34.0	7.0				
Other manufacturing or fabricating departments (nuts, bolts, con- tainers, etc.).....	38.3	12.9					17.6	7.8					148.2	56.2	63.9	28.1
Service or auxiliary operations and all other activities.....	292.3	162.6	108.5	44.2	64.3	30.0	1,198.7	678.7	411.2	153.7	257.5	133.8

- Represents zero.

¹See text for industry 3312 for definition of fully integrated, partially integrated, and nonintegrated works.²Data for "other mills..." includes data for specified mills not shown separately.

**TABLE 8B. Steel Wire Mills, Cold Finishing Mills, and Pipe and Tube Mills—Departmental Operations:
1972 and 1967**

Department	Steel wire drawing, etc. (SIC 3315)		Cold finishing mills (SIC 3316)		Steel pipe and tube (SIC 3317)	
	Man-hours	Production worker wages	Man-hours	Production worker wages	Man-hours	Production worker wages
	(millions)	(million dollars)	(millions)	(million dollars)	(millions)	(million dollars)
1972						
All departments, total.....	50.0	204.3	31.8	162.3	39.0	181.8
Rolling and finishing mills:						
Sheet and strip mill.....	(¹)	(¹)	11.4	59.9	-	-
Tin mill.....	-	-	-	-	-	-
Bar mill, including rebars.....	(¹)	(¹)	9.7	32.5	.4	1.9
Wire drawing mill.....	19.7	69.9	.4	2.0	-	-
Pipe mill.....	.3	1.0	.6	3.1	23.1	108.1
Other mills, including semifinishing, plate and structural.....	¹ 1.3	¹ 5.6	1.5	8.2	3.5	18.8
Other manufacturing or fabricating departments (nuts, bolts, forgings, containers, etc.).....	6.5	33.9	2.1	10.9	4.9	19.8
Service or auxiliary operations and all other activities.....	3.9	25.5	5.8	32.4	2.9	17.1
Unspecified.....	18.3	68.4	.3	13.3	4.2	16.1
1967						
All departments, total.....	44.1	138.0	29.8	108.8	45.1	155.4
Rolling and finishing mills:						
Sheet and strip mill.....	(¹)	(¹)	11.7	46.6	-	-
Tin mill.....	(¹)	(¹)	-	-	(¹)	(¹)
Bar mill, including rebars.....	(¹)	(¹)	4.8	16.7	(¹)	(¹)
Wire drawing mill.....	14.4	51.0	1.1	4.1	-	-
Pipe mill.....	-	-	(¹)	(¹)	22.0	77.7
Other mills, including semifinishing, plate and structural.....	¹ 2.3	¹ 8.7	¹ 1.3	¹ 4.4	¹ 3.1	¹ 10.7
Other manufacturing or fabricating departments (nuts, bolts, forgings, containers, etc.).....	11.6	33.2	2.3	8.6	6.8	26.0
Service or auxiliary operations and all other activities.....	5.4	16.8	6.3	22.6	3.3	12.2
Unspecified.....	10.4	28.3	2.3	5.8	9.9	28.8

- Represents zero.

¹Data for "Other mills..." include data for specified mills not shown separately.

Ferrous and Nonferrous Foundries

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EXPLANATORY TEXT

FERROUS AND NONFERROUS FOUNDRIES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3321—Gray Iron Foundries**
- 3322—Malleable Iron Foundries**
- 3324—Steel Investment Foundries**
- 3325—Steel Foundries, N.E.C.**
- 3361—Aluminum Foundries (Castings)***
- 3362—Brass, Bronze, Copper, Copper Base Alloy Foundries (Castings)***
- 3369—Nonferrous Foundries (Castings), N.E.C.***

For these industries, captive production (that is, the tonnage of castings produced for incorporation into the final product of the plant or company) is a particularly important factor. Distinction is made between rough castings and castings which are machined or further processed and incorporated into other products. The removal of gates, risers, sprues, and tumbling, dipping, and sand blasting, do not constitute machining. Plants primarily engaged in manufacturing castings are included in the foundry industries; plants primarily engaged in further processing castings into parts for metal products or machinery are classified in other major groups.

For the 1972 Census of Manufactures, separate establishment reports were received from commercial (jobbing) foundries and from those captive foundries which were operated as separate establishments by the reporting companies. These two groups comprise the types of establishments included in the foundry industries listed above. However, where the captive foundry operation was completely integrated with the operation of the entire plant, no separate establishment report was received for the foundry activity. In these instances, data were obtained on the tonnage of castings produced and consumed and on the number of employees usually engaged in the captive foundry operation. However, establishments with such foundry departments were classified on the basis of the plant's final product and accordingly, the general statistics on employment, payrolls, cost of materials, etc., are included in the data for such industries as plumbing fixtures (3431) and farm machinery and equipment (3522).

*Note that the "short title" for this industry is used throughout the report.

The data shown in table 6A on shipments of transfers of gray iron, malleable iron, steel investment, and other steel castings represent total shipments and transfers including the quantity of castings shipped by establishments classified in industries other than industries 3321, 3322, 3324, and 3325. For those industries where captive foundry departments are particularly important, data on the tonnage of castings produced and consumed are shown in table 7A of the individual industry reports covering the specific industries.

The Bureau of the Census collects and publishes monthly data on shipments of iron and steel castings in Current Industrial Reports, series M33A, "Iron and Steel Castings." It also collects and publishes monthly data on shipments of nonferrous castings in Current Industrial Reports, series M33E, "Nonferrous Castings." The M33A and the M33E series include data for both commercial and captive foundry production and show, separately, shipments "for sale" and shipments "for own use."

It should be specifically noted that the value-of-shipments data in table 6A do not include the value of the large quantity of castings produced by establishments classified in other industries which produce castings only for incorporation into their own products or for internal use but not for sale as such.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3321.—GRAY IRON FOUNDRIES

This industry comprises establishments primarily engaged in the manufacture of gray iron castings, including cast iron pressure and soil pipes and fittings. For a detailed list of products of industry 3321, refer to table 6A, product codes 33215 33 to 33219 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Gray Iron Foundries Industry in 1972 totaled \$3,875 million. This included shipments of gray iron castings (primary products) valued at \$3,507 million, shipments of other products (secondary products) valued at \$232 million, and miscellaneous receipts (mainly resales) of \$136 million.

Shipments of gray iron castings (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of motor vehicle parts and accessories (\$50 to \$100 million); steel castings, n.e.c., (\$25 million); and malleable iron castings (\$24 million).

Shipments of gray iron castings (primary products) from establishments classified in industry 3321 in 1972 represented 87 percent (coverage ratio) of these products valued at \$4,034 million shipped by all industries. In 1967, the coverage ratio was 86 percent. Other industries shipping gray iron castings consisted mainly of industry 3312, Blast Furnaces and Steel Mills, (\$148 million) and industry 3714, Motor Vehicle Parts and Accessories, (\$100 to \$200 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3321, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3322.—MALLEABLE IRON FOUNDRIES

This industry comprises establishments primarily engaged in the manufacture of malleable iron castings. For a detailed list of products of industry 3322 refer to table 6A, product codes 33221 31 and 33222 21.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Malleable Iron Foundries Industry in 1972 totaled \$508 million. This included shipments of malleable iron castings (primary products) valued at \$439 million, shipments of other products (secondary products) valued at \$65 million, and miscellaneous receipts (mainly resales) of \$4 million.

Shipments of malleable iron castings (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent. Secondary products shipped by this industry in 1972 consisted mainly of gray iron castings (\$37 million).

Shipments of malleable iron castings (primary products) from establishments classified in industry 3322 in 1972 represented 91 percent (coverage ratio) of these products valued at \$485 million shipped by all industries. In 1967, the coverage ratio was 89 percent. Other industries shipping malleable iron castings consisted mainly of industry 3321, Gray Iron Foundries, (\$24 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3322, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3324.—STEEL INVESTMENT FOUNDRIES

This industry comprises establishments primarily engaged in the manufacture of steel investment castings. For a detailed list of products of industry 3324, refer to table 6A, product codes 33240 63 and 33240 65.

The Steel Investment Foundries Industry is included for the first time in the census of manufactures for 1972. This industry and industry 3325, Steel Foundries, N.E.C., comprised industry 3323, Steel Foundries, in 1967.

Value of shipments and other receipts of the Steel Investment Foundries Industry in 1972 totaled \$262 million. This included shipments of steel investment castings (primary products) valued at \$224 million, shipments of other products (secondary products) valued at \$35 million, and miscellaneous receipts (mainly resales) of \$2 million.

Shipments of steel investment castings (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of steel investment castings (primary products) from establishments classified in industry 3324 in 1972 represented 94 percent (coverage ratio) of these products valued at \$238 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at

the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3324, these establishments accounted for 0 percent of value of shipments.

INDUSTRY 3325.—STEEL FOUNDRIES, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of steel castings, not elsewhere classified. For a detailed list of products of industry 3325, refer to table 6A, product codes 33252 12 to 33255 59.

The Steel Foundries, N.E.C., Industry is included for the first time in the census of manufactures for 1972. This industry and industry 3324, Steel Investment Foundries, comprised industry 3323, Steel Foundries, in 1967.

Value of shipments and other receipts of the Steel Foundries, N.E.C., Industry in 1972 totaled \$1,067 million. This included shipments of steel castings, n.e.c., (primary products) valued at \$922 million, shipments of other products (secondary products) valued at \$116 million, and miscellaneous receipts (mainly resales) of \$29 million.

Shipments of steel castings, n.e.c., (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of gray iron castings (\$24 million).

Shipments of steel castings, n.e.c., (primary products) from establishments classified in industry 3325 in 1972 represented 88 percent (coverage ratio) of these products valued at \$1,050 million shipped by all industries. Other industries shipping steel castings, n.e.c., consisted mainly of industry 3312, Blast Furnaces and Steel Mills, (\$25 million) and industry 3321, Gray Iron Foundries, (\$25 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3325, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3361.—ALUMINUM FOUNDRIES (Short Title)

This industry comprises establishments primarily engaged in the manufacture of castings and diecastings of aluminum and

aluminum-base alloys. For a detailed list of products of industry 3361, refer to table 6A, product codes 33611 41 to 33612 73.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Aluminum Foundries Industry in 1972 totaled \$1,270 million. This included shipments of aluminum castings (primary products) valued at \$1,047 million, shipments of other products (secondary products) valued at \$206 million, and miscellaneous receipts (mainly resales) of \$17 million.

Shipments of aluminum castings (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of nonferrous castings, n.e.c., (\$94 million).

Shipments of aluminum castings (primary products) from establishments classified in industry 3361 in 1972 represented 89 percent (coverage ratio) of these products valued at \$1,172 million shipped by all industries. In 1967, the coverage ratio was 85 percent. Other industries shipping aluminum castings consisted mainly of industry 3369, Nonferrous Foundries N.E.C., (\$38 million) and industry 3362, Brass, Bronze, and Copper Foundries, (\$30 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3361, these establishments accounted for 7 percent of value of shipments.

INDUSTRY 3362.—BRASS, BRONZE, AND COPPER FOUNDRIES (Short Title)

This industry comprises establishments primarily engaged in the manufacture of castings and diecastings of copper and copper-base alloy. For a detailed list of products of industry 3362, refer to table 6A, product codes 33620 11 to 33620 71.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Brass, Bronze, and Copper Foundries Industry in 1972 totaled \$465 million. This included shipments of brass, bronze, and copper castings

(primary products) valued at \$377 million, shipments of other products (secondary products) valued at \$73 million, and miscellaneous receipts (mainly resales) of \$15 million.

Shipments of brass, bronze, and copper castings (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of aluminum castings (\$30 million).

Shipments of brass, bronze, and copper castings (primary products) from establishments classified in industry 3362 in 1972 represented 81 percent (coverage ratio) of these products valued at \$463 million shipped by all industries. In 1967, the coverage ratio was 82 percent. Other industries shipping brass, bronze, and copper castings consisted mainly of industry 3361, Aluminum Foundries, (\$27 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3362, these establishments accounted for 9 percent of value of shipments.

INDUSTRY 3369.—NONFERROUS FOUNDRIES, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in the manufacture of castings and diecastings of nonferrous materials, except aluminum, copper, and copper-base alloys.

For a detailed list of products of industry 3369, refer to table 6A, product codes 33691 51 to 33693 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Nonferrous Foundries, N.E.C., Industry in 1972 totaled \$589 million. This included shipments of nonferrous castings, n.e.c., (primary products) valued at \$474 million, shipments of other products (secondary products) valued at \$100 million, and miscellaneous receipts (mainly resales) of \$15 million.

Shipments of nonferrous castings, n.e.c., (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of aluminum castings (\$38 million).

Shipments of nonferrous castings, n.e.c., (primary products) from establishments classified in industry 3369 in 1972 represented 79 percent (coverage ratio) of these products valued at \$604 million shipped by all industries. In 1967, the coverage ratio was 82 percent. Other industries shipping nonferrous castings, n.e.c., consisted mainly of industry 3361, Aluminum Foundries, (\$94 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3369, these establishments accounted for 9 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3321.--GRAY IRON FOUNDRIES															
1972 Census.....	992	722	138.3	1,386.9	118.0	245.6	1,119.4	2,256.5	1,638.8	3,875.3	202.5	(NA)	351.8	94	87
1971 ASM	(NA)	(NA)	132.6	1,210.2	112.9	224.7	960.8	1,945.9	1,386.7	3,332.5	234.5	2,243.5	334.5	(NA)	(NA)
1970 ASM	(NA)	(NA)	141.0	1,153.5	120.8	239.7	914.5	1,785.3	1,311.3	3,085.4	217.3	2,119.8	328.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	144.0	1,182.4	124.6	260.1	959.6	1,959.4	1,312.5	3,247.8	145.7	1,833.9	289.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	136.0	1,052.4	117.5	245.1	853.2	1,727.2	1,156.1	2,883.5	174.6	1,697.7	244.9	(NA)	(NA)
1967 Census.....	1,061	774	138.0	965.3	119.3	242.1	780.2	1,543.1	1,075.3	2,637.8	196.3	1,562.4	240.8	93	86
1966 ASM	(NA)	(NA)	140.7	978.3	122.1	259.7	803.0	1,646.4	1,096.9	2,728.2	243.2	(NA)	262.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	134.9	921.8	117.1	253.0	760.4	1,559.7	1,057.7	2,602.6	171.5	(NA)	239.7	(NA)	(NA)
1964 ASM	(NA)	(NA)	126.3	825.2	109.8	235.6	679.9	1,353.8	953.9	2,286.2	75.9	989.2	220.8	(NA)	(NA)
1963 Census.....	1,139	767	120.5	730.3	104.2	214.3	596.1	1,168.5	813.6	1,984.9	64.8	938.1	192.5	93	88
1962 ASM	(NA)	(NA)	119.2	675.4	102.8	204.1	543.2	1,076.1	767.9	1,836.2	60.5	887.4	185.9	(NA)	(NA)
1961 ASM	(NA)	(NA)	113.7	602.3	97.5	183.9	481.7	924.0	702.3	1,622.7	52.3	(NA)	174.5	(NA)	(NA)
1960 ASM	(NA)	(NA)	121.5	627.5	104.3	199.7	503.6	968.4	751.8	1,718.8	53.2	(NA)	178.1	(NA)	(NA)
1959 ASM	(NA)	(NA)	125.9	644.4	109.1	217.2	525.5	1,002.9	806.5	1,803.0	34.1	(NA)	180.7	(NA)	(NA)
1958 Census	1,310	848	112.7	531.2	96.4	178.0	418.9	810.8	622.7	1,434.7	32.6	(NA)	159.8	95	87
INDUSTRY 3322.--MALLEABLE IRON FOUNDRIES															
1972 Census.....	73	64	22.5	234.5	18.7	38.1	184.3	342.6	167.1	507.9	34.9	(NA)	33.2	87	91
1971 ASM	(NA)	(NA)	22.6	205.4	18.8	37.5	159.7	285.3	151.7	437.7	33.7	285.6	33.5	(NA)	(NA)
1970 ASM	(NA)	(NA)	23.0	187.4	18.9	37.5	144.5	270.1	137.1	403.0	17.9	261.9	32.4	(NA)	(NA)
1969 ASM	(NA)	(NA)	23.6	188.0	19.6	39.6	147.1	289.6	134.0	422.3	28.4	258.8	28.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	25.0	196.1	21.0	42.5	154.0	314.0	144.4	459.2	*27.3	259.0	29.5	(NA)	(NA)
1967 Census.....	81	75	25.4	187.0	21.4	43.0	147.3	296.5	142.9	438.3	21.9	239.2	29.5	85	89
1966 ASM	(NA)	(NA)	26.4	191.3	22.5	47.1	153.0	294.8	154.8	449.4	30.5	(NA)	29.4	(NA)	(NA)
1965 ASM	(NA)	(NA)	25.1	178.9	21.5	45.7	144.6	279.2	138.5	416.2	21.8	(NA)	27.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	23.7	159.2	20.2	42.5	129.0	218.8	130.3	346.7	19.0	180.7	27.9	(NA)	(NA)
1963 Census.....	81	71	22.3	142.0	18.8	38.8	112.7	204.6	111.8	317.5	16.3	168.1	24.0	87	87
1962 ASM	(NA)	(NA)	22.6	136.9	19.1	38.2	108.7	196.0	109.6	304.7	9.0	156.9	25.6	(NA)	(NA)
1961 ASM	(NA)	(NA)	20.8	118.1	17.3	33.7	91.9	164.5	93.2	257.0	9.8	(NA)	24.6	(NA)	(NA)
1960 ASM	(NA)	(NA)	23.5	125.6	19.7	37.2	98.1	170.3	107.0	279.9	12.8	(NA)	24.3	(NA)	(NA)
1959 ASM	(NA)	(NA)	24.3	135.0	20.8	42.4	108.2	189.1	113.8	299.6	9.6	(NA)	30.0	(NA)	(NA)
1958 Census	82	74	20.2	100.6	16.7	31.4	77.1	127.6	86.8	214.5	4.4	(NA)	24.9	86	90
INDUSTRY 3324.--STEEL INVESTMENT FOUNDRIES															
1972 Census.....	74	62	11.2	93.2	8.6	17.2	63.3	175.6	89.4	262.2	11.1	(NA)	38.0	86	94
INDUSTRY 3325.--STEEL FOUNDRIES, N.E.C.															
1972 Census.....	260	201	46.7	440.3	38.5	75.5	337.4	706.0	368.4	1,067.4	31.5	(NA)	152.1	89	88
1967 INDUSTRY 3323.--STEEL FOUNDRIES (1972 Industries 3324 and 3325)															
1972 Census ²	334	263	58.0	533.5	47.2	92.7	400.7	881.6	457.8	1,329.6	42.6	(NA)	190.1	88	91
1971 ASM	(NA)	(NA)	56.7	477.9	45.6	89.8	355.4	784.6	418.4	1,207.2	44.5	753.0	161.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	61.1	491.4	50.3	100.0	375.4	808.4	407.2	1,215.4	47.8	755.3	161.1	(NA)	(NA)
1969 ASM	(NA)	(NA)	69.3	537.3	57.4	116.4	415.4	928.2	432.5	1,337.3	53.5	745.8	177.1	(NA)	(NA)
1968 ASM	(NA)	(NA)	66.6	482.0	54.8	109.2	368.9	779.2	402.1	1,176.7	46.3	704.1	147.5	(NA)	(NA)
1967 Census.....	296	248	69.2	488.2	57.6	116.8	379.2	791.4	413.8	1,213.2	58.6	666.8	143.9	90	89
1966 ASM	(NA)	(NA)	70.8	509.6	59.8	127.0	403.0	855.2	425.4	1,279.0	53.6	(NA)	149.3	(NA)	(NA)
1965 ASM	(NA)	(NA)	65.6	456.1	55.5	116.5	362.2	742.5	389.5	1,116.7	39.4	(NA)	141.0	(NA)	(NA)
1964 ASM	(NA)	(NA)	62.0	418.3	52.6	109.0	329.2	661.6	346.0	987.1	31.4	518.3	123.1	(NA)	(NA)
1963 Census.....	267	220	56.8	361.4	47.6	95.1	280.4	586.9	288.8	871.0	27.8	489.6	101.5	85	89
1962 ASM	(NA)	(NA)	50.5	303.2	42.2	83.8	236.0	484.3	249.7	729.7	23.6	467.2	92.2	(NA)	(NA)
1961 ASM	(NA)	(NA)	46.8	269.9	38.7	74.4	204.4	410.8	225.0	629.6	22.9	(NA)	88.6	(NA)	(NA)
1960 ASM	(NA)	(NA)	50.8	288.1	42.2	81.8	219.8	439.1	248.7	700.5	19.2	(NA)	89.2	(NA)	(NA)
1959 ASM	(NA)	(NA)	54.0	300.9	45.5	89.0	231.4	489.2	256.7	739.2	25.3	(NA)	103.4	(NA)	(NA)
1958 Census	256	216	49.1	254.3	40.1	74.4	186.8	383.9	203.7	596.3	22.2	(NA)	92.7	86	86

¹ See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3361.--ALUMINUM FOUNDRIES															
1972 Census.....	1,005	430	45.7	417.9	38.6	76.8	321.9	718.3	558.0	1,269.9	38.8	(NA)	96.7	84	89
1971 ASM.....	(NA)	(NA)	40.9	346.9	33.8	68.9	260.9	591.8	454.2	1,042.5	41.9	468.6	89.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	46.4	353.4	39.1	77.6	270.5	582.5	466.2	1,053.5	*53.7	469.7	89.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	48.6	374.6	41.7	84.6	294.2	636.9	500.2	1,123.9	66.0	471.6	89.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	46.4	342.1	39.6	79.9	265.5	578.7	451.9	1,025.6	49.5	395.6	74.7	(NA)	(NA)
1967 Census.....	922	411	45.2	312.9	38.8	78.8	243.6	516.6	405.7	920.5	38.7	347.2	67.2	83	85
1966 ASM.....	(NA)	(NA)	44.8	300.8	38.1	78.6	231.5	499.4	421.4	916.8	38.9	(NA)	64.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	39.9	265.3	33.8	69.8	206.2	436.2	382.8	813.9	46.6	(NA)	67.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	36.8	240.6	31.0	65.2	188.1	381.7	332.2	708.7	25.9	290.2	56.7	(NA)	(NA)
1963 Census.....	954	321	36.2	222.8	30.7	63.4	174.2	343.9	299.4	640.2	18.4	270.8	46.9	81	83
1962 ASM.....	(NA)	(NA)	38.4	228.9	32.7	66.2	178.9	363.4	295.0	656.4	17.7	258.8	43.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	34.5	194.8	28.6	58.6	147.9	283.4	271.3	556.0	14.9	(NA)	42.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	35.7	198.5	29.7	61.9	151.2	286.7	273.3	564.3	24.9	(NA)	41.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	36.4	197.0	30.5	61.6	151.3	291.8	264.3	552.8	23.4	(NA)	52.8	(NA)	(NA)
1958 Census.....	955	283	30.0	158.9	24.6	48.7	119.2	225.7	198.6	422.0	12.2	(NA)	43.6	79	81
INDUSTRY 3362.--BRASS, BRONZE, AND COPPER FOUNDRIES															
1972 Census.....	507	195	15.4	129.6	13.0	25.7	96.3	236.9	229.5	465.3	17.4	(NA)	50.7	84	81
1971 ASM.....	(NA)	(NA)	16.4	133.4	13.2	27.3	97.9	221.2	211.6	434.5	8.8	185.6	58.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	18.2	134.7	15.1	31.1	100.9	247.4	232.2	476.9	*25.7	188.6	58.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	17.7	120.6	14.8	28.4	89.5	221.9	212.8	433.0	14.3	134.9	51.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	16.1	114.3	13.5	27.3	83.6	211.8	198.8	409.2	10.4	133.1	49.9	(NA)	(NA)
1967 Census.....	534	207	17.9	119.8	15.1	30.6	89.2	226.8	218.0	445.2	12.4	129.3	52.5	83	82
1966 ASM.....	(NA)	(NA)	17.9	112.7	15.2	31.9	84.3	216.9	239.4	451.7	9.9	(NA)	46.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	16.3	101.8	13.4	28.5	74.5	177.0	193.7	369.4	7.5	(NA)	39.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	15.7	92.7	13.0	27.4	69.9	158.3	160.2	317.2	*8.3	110.9	38.5	(NA)	(NA)
1963 Census.....	549	193	15.3	86.3	12.8	26.1	65.1	144.1	144.4	287.5	5.4	101.1	32.6	84	78
1962 ASM.....	(NA)	(NA)	17.8	97.6	14.6	28.8	71.0	155.2	150.2	304.4	5.3	95.1	33.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	17.2	89.0	14.0	27.3	64.8	149.6	137.6	283.8	3.8	(NA)	31.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	16.8	85.7	13.6	26.6	62.3	137.4	133.4	274.5	4.9	(NA)	28.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	16.4	81.0	13.8	27.3	61.9	131.7	136.6	267.4	4.5	(NA)	27.0	(NA)	(NA)
1958 Census.....	665	209	14.9	70.5	12.3	23.5	52.8	109.7	111.6	221.0	5.1	(NA)	26.0	85	81
INDUSTRY 3369.--NONFERROUS FOUNDRIES, N.E.C.															
1972 Census.....	329	167	20.3	174.0	16.9	34.4	130.3	314.0	276.4	588.6	17.3	(NA)	63.8	83	79
1971 ASM.....	(NA)	(NA)	17.5	145.1	14.2	29.3	105.3	235.0	202.4	442.7	8.3	163.3	47.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	21.3	166.9	17.5	36.2	121.4	275.9	221.1	488.7	12.5	186.3	59.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	25.3	189.1	20.5	40.5	141.1	356.9	261.4	620.6	(30.6)	203.9	52.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	25.1	177.6	20.5	41.2	132.0	349.6	248.9	596.3	16.1	189.5	55.9	(NA)	(NA)
1967 Census.....	360	180	26.6	176.7	22.1	45.0	131.2	324.1	233.0	556.3	18.2	179.3	51.7	83	82
1966 ASM.....	(NA)	(NA)	22.8	149.9	19.4	42.4	116.9	274.5	227.7	498.3	19.5	(NA)	41.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	18.8	114.2	15.9	37.0	87.6	195.1	177.0	369.8	10.5	(NA)	29.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	17.8	105.9	14.9	31.5	81.2	186.5	144.1	329.6	*12.7	107.2	25.4	(NA)	(NA)
1963 Census.....	391	165	17.7	102.9	14.8	30.3	78.4	168.5	134.3	302.7	6.8	97.4	23.3	78	75
1962 ASM.....	(NA)	(NA)	15.8	90.4	13.2	27.1	69.4	149.8	110.5	259.4	5.8	90.5	19.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	14.6	81.7	12.0	24.2	60.9	127.8	94.1	222.2	*4.1	(NA)	18.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	17.1	92.6	14.2	28.7	69.0	150.2	109.0	260.2	7.8	(NA)	22.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	18.3	98.1	15.5	31.3	74.7	151.6	116.9	267.7	6.7	(NA)	25.1	(NA)	(NA)
1958 Census.....	345	136	17.3	89.2	14.3	27.6	66.3	135.3	98.7	234.6	5.0	(NA)	23.1	78	77

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 Industry 3321	1972 Industry 3322	1972 Industry 3324	1972 Industry 3325	1967 Industry 3323	1972 Industry 3361	1972 Industry 3362	1972 Industry 3369
1972.....	892	64	68	225	(X)	972	490	321
1967.....	969	72	(X)	(X)	256	970	516	352
1963.....	1,062	76	(X)	(X)	222	926	535	386

Although in 1967, industry 3323 is a combination of 1972 industries 3324 and 3325, the number of companies is not available for 1972 on the old SIC basis.

(X) Not applicable. (NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table I of the chapter devoted to this industry.

²The 1972 data are not strictly comparable with 1971 and prior years because of revisions in the 1972 Standard Industrial Classification. For 1972, these statistics are the combined totals for industries 3324 and 3325 on the new SIC basis. For 1971 and prior years, they are totals for industry 3323 as classified on the old SIC basis. The 1972 establishments included in industries 3324 and 3325 (combined) on the new SIC basis are not necessarily identical to the establishments included in industry 3323 on the old SIC basis (see table 1C). However, the effect of these changes is estimated to be less than one percent of the total value of shipments for industries 3324 and 3325 in 1972 (combined).

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3321.--GRAY IRON FOUNDRIES											
1972 Census.....	10,028	(NA)	85	2,081	4.56	.42	.78	(NA)	16,315	61	9.19
1971 ASM.....	9,127	16,920	85	1,990	4.28	.42	.78	.67	14,675	62	8.66
1970 ASM.....	8,181	15,030	86	1,984	3.82	.43	.80	.69	12,662	64	7.45
1969 ASM.....	8,211	12,740	87	2,087	3.69	.40	.77	.56	13,607	60	7.53
1968 ASM.....	7,738	12,480	86	2,086	3.48	.40	.77	.59	12,700	61	7.05
1967 Census.....	6,995	11,320	86	2,031	3.22	.41	.77	.59	11,187	63	6.37
1966 ASM.....	6,953	(NA)	87	2,127	3.09	.40	.76	(NA)	11,700	59	6.34
1965 ASM.....	6,833	(NA)	87	2,160	3.01	.41	.76	(NA)	11,560	59	6.16
1964 ASM.....	6,532	7,830	87	2,145	2.89	.42	.78	.43	10,717	61	5.75
1963 Census.....	6,059	7,790	86	2,056	2.78	.41	.78	.47	9,695	62	5.45
1962 ASM.....	5,665	7,440	86	1,985	2.66	.42	.79	.48	9,025	63	5.27
1961 ASM.....	5,298	(NA)	86	1,887	2.62	.43	.80	(NA)	8,127	65	5.02
1960 ASM.....	5,164	(NA)	86	1,914	2.52	.44	.80	(NA)	7,970	65	4.85
1959 ASM.....	5,120	(NA)	87	1,990	2.42	.45	.80	(NA)	7,968	64	4.62
1958 Census.....	4,714	(NA)	86	1,846	2.35	.43	.80	(NA)	7,196	66	4.55
INDUSTRY 3322.--MALLEABLE IRON FOUNDRIES											
1972 Census.....	10,422	(NA)	83	2,037	4.84	.33	.79	(NA)	15,227	68	8.99
1971 ASM.....	9,088	12,640	83	1,995	4.25	.35	.82	.65	12,624	72	7.61
1970 ASM.....	8,148	11,390	82	1,984	3.85	.34	.81	.65	11,743	69	7.20
1969 ASM.....	7,966	10,970	83	2,020	3.72	.32	.76	.61	12,271	65	7.31
1968 ASM.....	7,844	10,360	84	2,024	3.62	.31	.74	.56	12,560	63	7.39
1967 Census.....	7,353	9,420	84	2,013	3.43	.33	.75	.55	11,657	63	6.90
1966 ASM.....	7,244	(NA)	85	2,093	3.25	.34	.77	(NA)	11,164	65	6.25
1965 ASM.....	7,125	(NA)	86	2,129	3.16	.33	.76	(NA)	11,123	64	6.11
1964 ASM.....	6,722	7,620	85	2,102	3.04	.38	.83	.52	9,239	73	5.15
1963 Census.....	6,367	7,540	84	2,060	2.90	.35	.80	.53	9,174	69	5.27
1962 ASM.....	6,049	6,940	85	1,999	2.84	.36	.81	.51	8,658	70	5.12
1961 ASM.....	5,673	(NA)	83	1,948	2.73	.36	.82	(NA)	7,900	72	4.88
1960 ASM.....	5,336	(NA)	84	1,893	2.64	.38	.83	(NA)	7,236	74	4.58
1959 ASM.....	5,562	(NA)	86	2,037	2.55	.38	.83	(NA)	7,793	71	4.46
1958 Census.....	4,972	(NA)	83	1,879	2.46	.40	.87	(NA)	6,307	79	4.07
INDUSTRY 3324.--STEEL INVESTMENT FOUNDRIES											
1972 Census.....	8,473	(NA)	79	1,977	3.68	.34	.70	(NA)	15,973	53	10.215
INDUSTRY 3325.--STEEL FOUNDRIES, N.E.C.											
1972 Census.....	9,408	(NA)	82	1,961	4.47	.35	.76	(NA)	15,083	62	9.35
1967 INDUSTRY 3323.--STEEL FOUNDRIES (1972 Industries 3324 and 3325)											
1972 Census ¹	9,230	(NA)	82	1,964	4.32	.34	.75	(NA)	15,253	61	9.51
1971 ASM.....	8,429	13,280	80	1,969	3.96	.35	.74	.62	13,838	61	8.74
1970 ASM.....	8,043	12,360	82	1,988	3.75	.34	.74	.62	13,231	61	8.08
1969 ASM.....	7,753	10,760	83	2,028	3.57	.32	.73	.56	13,394	58	7.97
1968 ASM.....	7,237	10,570	82	1,993	3.38	.34	.75	.60	11,700	62	7.14
1967 Census.....	7,055	9,640	83	2,028	3.25	.34	.74	.55	11,436	62	6.78
1966 ASM.....	7,198	(NA)	84	2,124	3.17	.33	.73	(NA)	12,079	60	6.73
1965 ASM.....	6,953	(NA)	85	2,099	3.11	.35	.76	(NA)	11,319	61	6.37
1964 ASM.....	6,747	8,360	85	2,072	3.02	.35	.77	.53	10,671	63	6.07
1963 Census.....	6,363	8,620	84	1,998	2.95	.33	.75	.56	10,333	62	6.17
1962 ASM.....	5,986	9,250	84	1,986	2.82	.34	.76	.64	9,590	63	5.78
1961 ASM.....	5,767	(NA)	83	1,922	2.75	.36	.79	(NA)	8,778	66	5.52
1960 ASM.....	5,671	(NA)	83	1,938	2.69	.36	.77	(NA)	8,644	66	5.67
1959 ASM.....	5,572	(NA)	84	1,956	2.60	.35	.75	(NA)	9,059	62	5.50
1958 Census.....	5,179	(NA)	82	1,855	2.51	.34	.77	(NA)	7,819	66	5.16

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar of shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3361.--ALUMINUM FOUNDRIES											
1972 Census.....	9,144	(NA)	84	1,990	4.19	.44	.77	(NA)	15,718	58	9.35
1971 ASM.....	8,482	11,460	83	2,038	3.79	.44	.77	.45	14,469	59	8.59
1970 ASM.....	7,616	10,120	84	1,985	3.49	.44	.78	.45	12,554	61	7.51
1969 ASM.....	7,708	9,700	86	2,029	3.48	.45	.78	.42	13,105	59	7.53
1968 ASM.....	7,373	8,530	85	2,018	3.32	.44	.77	.39	12,472	59	7.24
1967 Census.....	6,923	7,680	86	2,031	3.09	.44	.78	.38	11,429	61	6.56
1966 ASM.....	6,720	(NA)	85	2,063	2.95	.46	.79	(NA)	11,157	60	6.36
1965 ASM.....	6,649	(NA)	85	2,067	2.95	.47	.80	(NA)	10,930	61	6.25
1964 ASM.....	6,542	7,890	84	2,101	2.89	.47	.81	.41	10,380	63	5.86
1963 Census.....	6,151	7,480	85	2,063	2.75	.47	.82	.42	9,495	65	5.42
1962 ASM.....	5,962	6,740	85	2,026	2.70	.45	.80	.39	9,465	63	5.49
1961 ASM.....	5,644	(NA)	83	2,049	2.52	.49	.84	(NA)	8,211	69	4.83
1960 ASM.....	5,555	(NA)	83	2,084	2.44	.48	.84	(NA)	8,022	69	4.63
1959 ASM.....	5,414	(NA)	84	2,020	2.46	.48	.83	(NA)	8,019	68	4.74
1958 Census.....	5,289	(NA)	82	1,977	2.45	.47	.85	(NA)	7,512	70	4.64
INDUSTRY 3362.--BRASS, BRONZE, AND COPPER FOUNDRIES											
1972 Census.....	8,416	(NA)	84	1,977	3.75	.49	.77	(NA)	15,383	55	9.22
1971 ASM.....	8,134	11,320	81	2,068	3.59	.49	.79	.43	13,488	60	8.10
1970 ASM.....	7,401	10,360	83	2,060	3.24	.49	.77	.40	13,593	54	7.96
1969 ASM.....	6,814	7,620	84	1,919	3.15	.49	.77	.31	12,537	54	7.81
1968 ASM.....	7,099	8,270	84	2,022	3.06	.49	.77	.33	13,155	54	7.76
1967 Census.....	6,693	7,220	84	2,026	2.92	.49	.76	.29	12,670	53	7.41
1966 ASM.....	6,280	(NA)	85	2,100	2.64	.53	.78	(NA)	12,085	52	6.79
1965 ASM.....	6,257	(NA)	82	2,127	2.61	.52	.80	(NA)	10,883	57	6.20
1964 ASM.....	5,897	7,060	83	2,111	2.55	.50	.80	.35	10,062	59	5.77
1963 Census.....	5,629	6,610	84	2,030	2.50	.50	.80	.35	9,393	60	5.53
1962 ASM.....	5,475	5,340	82	1,967	2.47	.49	.81	.31	8,707	63	5.39
1961 ASM.....	5,184	(NA)	81	1,948	2.38	.48	.80	(NA)	8,710	60	5.49
1960 ASM.....	5,098	(NA)	81	1,946	2.34	.49	.80	(NA)	8,173	62	5.17
1959 ASM.....	4,944	(NA)	84	1,981	2.27	.51	.81	(NA)	8,037	62	4.82
1958 Census.....	4,745	(NA)	83	1,915	2.24	.51	.82	(NA)	7,385	64	4.66
INDUSTRY 3369.--NONFERROUS FOUNDRIES, N.E.C.											
1972 Census.....	8,571	(NA)	84	2,029	3.78	.47	.77	(NA)	15,468	55	9.10
1971 ASM.....	8,291	9,330	81	2,063	3.59	.46	.78	.37	13,429	62	8.02
1970 ASM.....	7,836	9,570	82	2,069	3.35	.45	.79	.38	12,953	61	7.62
1969 ASM.....	7,474	11,520	81	1,976	3.48	.42	.73	.47	14,087	53	8.80
1968 ASM.....	7,076	11,770	82	2,010	3.20	.42	.72	.46	13,928	51	8.49
1967 Census.....	6,643	6,740	83	2,036	2.92	.42	.74	.32	12,184	55	7.20
1966 ASM.....	6,571	(NA)	85	2,181	2.76	.46	.76	(NA)	12,038	55	6.47
1965 ASM.....	6,087	(NA)	85	2,318	2.37	.48	.79	(NA)	10,398	59	5.28
1964 ASM.....	5,959	6,020	84	2,111	2.58	.44	.76	.33	10,495	57	5.93
1963 Census.....	5,820	5,500	84	2,042	2.59	.44	.78	.32	9,529	61	5.56
1962 ASM.....	5,728	5,730	84	2,054	2.56	.43	.77	.35	9,492	60	5.52
1961 ASM.....	5,609	(NA)	82	2,027	2.51	.42	.79	(NA)	8,771	64	5.28
1960 ASM.....	5,424	(NA)	83	2,019	2.40	.42	.78	(NA)	8,792	62	5.23
1959 ASM.....	5,357	(NA)	85	2,025	2.38	.44	.80	(NA)	8,281	65	4.84
1958 Census.....	5,172	(NA)	83	1,927	2.40	.42	.80	(NA)	7,843	66	4.90

(NA) Not available.

¹The figures for 1972 are not strictly comparable with 1971 and prior years. (See footnote 2, table 1A.)

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3324.--Steel Investment Foundries.....	74	62	11.2	175.6	262.2	(X)	(X)	(X)	(X)	(X)
Old industry 3323.--Steel Foundries.....	74	62	11.2	175.6	262.2	330	259	58.1	890.5	1,342.7
New industry 3325.--Steel Foundries, N.E.C.....	260	201	46.7	706.0	1,067.4	(X)	(X)	(X)	(X)	(X)
Old industry 3323.--Steel Foundries.....	260	201	46.7	706.0	1,067.4	330	259	58.1	890.5	1,342.7

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3321-- GRAY IRON FOUNDRIES													
UNITED STATES	992	722	138.3	1 386.9	118.0	245.6	1 119.4	2 256.5	1 638.8	3 875.3	202.5	138.0	1 543.1
NORTHEAST REGION	213	149	17.9	154.8	15.1	29.7	121.8	261.2	212.1	472.6	(D)	21.4	234.6
NEW ENGLAND DIVISION	56	41	4.2	32.8	3.6	6.9	26.4	53.1	25.4	78.1	(D)	5.6	52.9
MASSACHUSETTS	29	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	27.1
RHODE ISLAND	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CONNECTICUT	10	8	.9	7.0	.8	1.4	5.5	11.8	4.0	15.8	(D)	1.8	19.1
MIDDLE ATLANTIC DIVISION	157	108	13.7	122.0	11.5	22.8	95.4	208.1	186.7	394.5	(D)	15.8	185.2
NEW YORK	40	26	2.7	24.4	2.3	4.7	19.3	40.6	34.3	74.7	(D)	3.5	39.5
NEW JERSEY	29	17	3.5	30.8	2.8	5.9	23.7	54.7	53.5	109.5	(D)	4.2	54.8
PENNSYLVANIA	88	65	7.5	66.8	6.3	12.2	52.5	112.8	98.9	210.4	(D)	8.1	87.4
NORTH CENTRAL REGION	458	354	80.7	916.4	68.5	146.6	742.5	1 447.5	966.6	2 403.4	(D)	79.3	944.8
EAST NORTH CENTRAL DIVISION	375	296	75.1	871.8	63.9	137.5	708.4	1 361.9	910.2	2 263.1	133.6	73.5	890.2
OHIO	102	80	19.6	235.4	16.7	36.3	193.9	378.8	256.6	634.2	38.3	19.9	255.5
INDIANA	57	45	9.3	92.4	7.9	15.8	74.4	159.7	75.8	235.8	12.3	10.2	117.5
ILLINOIS	73	60	12.2	116.0	10.4	21.4	93.1	186.4	129.9	312.2	11.2	7.2	92.5
MICHIGAN	82	63	26.3	354.6	22.4	50.8	289.8	519.9	371.9	887.3	64.4	27.6	324.2
WISCONSIN	61	48	7.7	73.3	6.4	13.2	57.2	117.0	76.1	193.6	7.4	8.5	100.5
WEST NORTH CENTRAL DIVISION	83	58	5.6	44.6	4.7	9.1	34.1	85.6	56.5	140.3	(D)	5.8	54.6
MINNESOTA	E1 27	17	1.3	10.5	1.0	1.9	7.9	19.7	9.7	28.9	(D)	1.0	10.8
IOWA	18	15	1.7	14.5	1.4	2.8	10.8	28.7	23.5	52.1	(D)	1.6	18.3
MISSOURI	18	11	1.6	11.7	1.4	2.6	9.4	23.0	16.0	37.9	(D)	EE	(D)
KANSAS	E1 15	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	218	157	33.4	260.7	28.9	58.6	211.2	449.8	388.4	831.6	38.3	30.8	294.9
SOUTH ATLANTIC DIVISION	78	49	9.3	73.6	8.2	16.9	62.3	138.3	89.3	225.6	12.2	8.6	95.1
MARYLAND	E2 8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA	17	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST VIRGINIA	11	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA	15	11	1.4	10.0	1.3	2.6	8.6	21.1	14.7	35.6	.7	EE	(D)
SOUTH CAROLINA	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
GEORGIA	16	11	1.3	8.8	1.1	2.3	6.9	15.3	7.2	22.3	1.3	.6	4.3
FLORIDA	E3 7	2	.2	1.3	.2	.3	1.1	2.0	1.7	3.7	.1	BB	(D)
EAST SOUTH CENTRAL DIVISION	81	66	17.3	134.8	14.8	30.2	107.7	217.0	240.0	454.1	18.1	16.0	138.2
TENNESSEE	24	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ALABAMA	48	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSISSIPPI	E1 5	4	.2	1.4	.2	.3	1.1	2.9	1.7	4.6	.2	.2	2.6
WEST SOUTH CENTRAL DIVISION	59	42	6.8	52.4	5.8	11.5	41.2	94.5	59.1	151.9	8.0	6.3	61.6
ARKANSAS	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
OKLAHOMA	11	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS	39	26	5.4	42.8	4.6	9.1	33.8	78.9	51.4	128.7	5.2	5.2	52.8
WEST REGION	103	62	6.3	55.0	5.5	10.7	43.8	98.0	71.6	167.6	5.0	6.5	68.9
MOUNTAIN DIVISION	21	12	1.5	13.8	1.3	2.7	11.1	28.4	18.7	46.2	(D)	EE	(D)
COLORADO	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
UTAH	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION	E1 82	50	4.8	41.2	4.2	8.0	32.7	69.6	52.9	121.4	(D)	FF	(D)
WASHINGTON	E1 12	3	.4	3.0	.3	.5	2.5	4.3	2.7	6.9	(D)	.7	6.8
OREGON	E1 7	4	.3	2.1	.2	.4	1.7	3.4	1.5	4.9	(D)	CC	(D)
CALIFORNIA	E1 63	43	4.2	36.1	3.6	7.1	28.6	61.9	48.7	109.6	(D)	4.2	44.0
3322-- MALLEABLE IRON FOUNDRIES													
UNITED STATES	73	64	22.5	234.5	18.7	38.1	184.3	342.6	167.1	507.9	34.9	25.4	296.5
NORTHEAST REGION	24	21	4.2	36.1	3.5	6.9	28.7	52.3	22.3	75.1	(D)	5.1	53.7
NEW ENGLAND DIVISION	8	6	.8	7.0	.6	1.3	5.5	10.6	4.6	15.2	(D)	.9	9.2
CONNECTICUT	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	16	15	3.4	29.2	2.9	5.5	23.3	41.7	17.7	59.8	(D)	4.2	44.5
NEW YORK	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	29.9
NORTH CENTRAL REGION	37	36	16.3	182.9	13.4	27.7	144.0	266.3	136.4	400.8	28.8	18.7	229.7
EAST NORTH CENTRAL DIVISION	34	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.2	223.5
OHIO	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	35.5
INDIANA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	9.0
ILLINOIS	7	6	2.1	22.9	1.6	3.5	17.1	32.7	14.1	46.0	(D)	5.5	67.9
MICHIGAN	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	87.5
WISCONSIN	8	8	2.1	22.6	1.8	3.9	18.4	31.8	11.8	43.1	(D)	1.9	23.6
WEST NORTH CENTRAL DIVISION	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	6.1
MINNESOTA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
IOWA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	11.7
SOUTH ATLANTIC DIVISION	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TEXAS	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3324-- STEEL INVESTMENT FOUNDRIES													
UNITED STATES.	74	62	11.2	93.2	8.6	17.2	63.3	175.6	89.4	262.2	11.1	(NA)	(NA)
NORTHEAST REGION.	21	18	3.5	31.0	2.7	5.5	20.9	54.3	26.2	79.8	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	7	7	1.2	10.6	.9	2.0	6.5	19.3	7.2	26.1	(D)	(NA)	(NA)
NEW HAMPSHIRE.	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	14	11	2.4	20.8	1.8	3.7	14.7	35.3	19.5	54.6	(D)	(NA)	(NA)
NEW JERSEY.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	28	24	4.9	41.4	3.8	7.3	28.0	86.7	41.2	126.2	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	23	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS.	5	4	.7	5.3	.6	1.1	4.0	8.4	2.2	10.5	(D)	(NA)	(NA)
MICHIGAN.	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	5	4	.2	2.0	.2	.4	1.3	3.8	1.6	5.5	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	14	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	13	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	12	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3325-- STEEL FOUNDRIES, NEC													
UNITED STATES.	260	201	46.7	440.3	38.5	75.5	337.4	706.0	368.4	1 067.4	31.5	(NA)	(NA)
NORTHEAST REGION.	60	44	12.3	118.4	10.0	19.5	89.4	176.4	106.0	282.3	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	10	6	.6	5.1	.5	1.0	3.6	9.5	4.5	14.0	(D)	(NA)	(NA)
MASSACHUSETTS.	6	3	.2	1.9	.2	.3	1.4	3.4	1.7	5.1	(D)	(NA)	(NA)
CONNECTICUT.	4	3	.4	3.2	.3	.6	2.3	6.1	2.8	8.9	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	50	38	11.7	113.3	9.6	18.6	85.8	166.9	101.5	268.3	(D)	(NA)	(NA)
NEW YORK.	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY.	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	32	25	8.2	77.0	6.7	12.9	58.2	104.6	70.2	175.2	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	101	81	23.3	222.6	19.2	37.3	171.8	357.8	175.2	532.8	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	85	66	20.1	192.8	16.4	31.9	147.4	311.7	148.6	459.4	10.3	(NA)	(NA)
OHIO.	26	22	6.9	65.1	5.5	10.5	49.0	101.3	49.4	150.6	4.1	(NA)	(NA)
INDIANA.	7	5	3.2	28.3	2.8	5.2	23.2	43.5	20.5	64.8	.6	(NA)	(NA)
ILLINOIS.	17	14	4.7	46.6	3.8	7.5	34.8	76.0	39.0	114.4	2.0	(NA)	(NA)
MICHIGAN.	17	9	1.6	15.6	1.3	2.6	11.9	29.0	14.3	42.9	.9	(NA)	(NA)
WISCONSIN.	18	16	3.7	37.2	3.0	6.0	28.5	61.9	25.5	86.8	2.6	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	16	15	3.2	29.8	2.8	5.4	24.4	46.1	26.5	73.4	(D)	(NA)	(NA)
MINNESOTA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA.	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	42	34	5.6	45.7	4.7	9.6	35.7	80.7	40.0	120.6	5.2	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	12	11	1.3	9.4	1.1	2.2	7.3	16.7	6.6	23.3	1.8	(NA)	(NA)
DELAWARE.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	11	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	19	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	13	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	57	42	5.6	53.5	4.6	9.1	40.5	91.0	47.2	131.7	4.1	(NA)	(NA)
MOUNTAIN DIVISION.	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	52	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON.	16	12	1.0	9.2	.8	1.6	7.3	14.3	7.6	21.7	(D)	(NA)	(NA)
OREGON.	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	29	19	2.1	20.5	1.7	3.4	15.7	32.4	18.4	49.6	1.6	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3361-- ALUMINUM FOUNDRIES													
UNITED STATES.	1 005	430	45.7	417.9	38.6	76.8	321.9	718.3	558.0	1 269.9	38.8	45.2	516.6
NORTHEAST REGION.	222	79	9.7	89.2	8.1	16.0	68.6	146.9	104.1	249.5	(D)	10.8	127.0
NEW ENGLAND DIVISION.	75	22	2.4	19.7	1.9	3.9	14.8	31.6	18.6	50.0	(D)	2.2	24.6
NEW HAMPSHIRE. E2	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS. E1	32	8	.5	4.7	.4	.9	3.4	7.4	4.0	11.3	(D)	.6	7.2
CONNECTICUT.	27	8	1.2	10.9	1.0	2.1	8.2	17.9	12.3	30.0	(D)	1.2	13.0
MIDDLE ATLANTIC DIVISION.	147	57	7.3	69.5	6.2	12.1	53.8	115.2	85.6	199.5	(D)	8.6	102.4
NEW YORK.	52	19	2.8	28.1	2.3	4.5	22.0	45.9	41.3	86.7	(D)	3.8	43.8
NEW JERSEY. E1	31	13	1.0	9.1	.9	1.8	6.6	12.5	12.1	24.4	(D)	1.5	18.8
PENNSYLVANIA.	64	25	3.5	32.3	3.0	5.8	25.3	56.9	32.2	88.5	(D)	3.3	39.8
NORTH CENTRAL REGION.	449	223	26.1	239.6	22.1	44.3	186.6	424.2	333.3	754.7	(D)	25.2	290.4
EAST NORTH CENTRAL DIVISION.	375	182	22.1	205.0	18.7	37.6	159.2	367.5	293.0	658.3	17.5	21.6	253.6
OHIO.	126	59	8.9	83.0	7.5	14.7	63.8	146.6	112.0	255.5	6.2	9.1	102.0
INDIANA.	40	18	2.4	25.4	2.0	4.1	20.5	43.1	49.4	92.7	3.1	2.9	42.9
ILLINOIS. E2	98	45	3.7	30.9	3.2	6.3	23.3	58.5	40.2	98.1	3.0	4.2	49.2
MICHIGAN.	68	32	3.6	33.8	3.0	6.2	25.9	63.6	47.5	111.8	2.3	2.8	33.0
WISCONSIN.	43	28	3.6	32.0	3.1	6.3	25.8	55.6	43.9	100.2	2.8	2.7	26.5
WEST NORTH CENTRAL DIVISION.	74	41	4.0	34.6	3.4	6.7	27.3	56.7	40.4	96.3	(D)	3.6	36.7
MINNESOTA.	20	14	1.6	16.7	1.4	2.9	13.8	28.5	18.8	46.7	1.9	1.6	17.7
IOWA.	17	7	.7	5.2	.6	1.0	4.2	6.5	6.7	13.0	.7	.6	5.8
MISSOURI.	25	12	1.3	10.5	1.1	2.2	7.7	18.8	12.8	31.7	.8	1.1	11.2
KANSAS.	11	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	138	46	4.2	40.1	3.5	7.2	30.9	61.4	69.2	130.2	5.4	4.0	38.5
SOUTH ATLANTIC DIVISION. E1	56	17	.9	6.4	.8	1.4	4.7	11.9	6.2	18.0	.5	.8	7.3
NORTH CAROLINA. E1	11	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA. E1	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA. E1	25	6	.3	2.1	.3	.5	1.6	4.2	2.1	6.3	.1	.2	1.5
EAST SOUTH CENTRAL DIVISION.	29	13	2.4	27.9	1.9	4.3	21.7	38.4	53.4	91.7	3.8	1.9	20.6
KENTUCKY.	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE. E1	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.1
ALABAMA.	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION. E1	53	16	.9	5.8	.8	1.5	4.4	11.1	9.6	20.6	1.0	1.2	10.7
ARKANSAS.	7	5	.3	1.6	.3	.5	1.2	3.2	4.7	7.7	.3	CC	(D)
TEXAS. E2	38	9	.5	3.4	.4	.9	2.7	5.8	4.2	10.0	.6	.6	5.0
WEST REGION. E1	196	82	5.8	48.9	4.9	9.3	35.9	85.9	51.3	135.5	4.4	5.2	60.7
MOUNTAIN DIVISION. E3	21	7	.4	2.4	.3	.6	1.9	3.9	2.1	5.9	.3	.3	3.6
COLORADO. E3	12	3	.2	.9	.2	.2	.7	1.4	.9	2.3	.1	(NA)	(NA)
PACIFIC DIVISION. E1	175	75	5.4	46.5	4.5	8.7	34.0	82.0	49.2	129.6	4.1	4.9	57.1
WASHINGTON.	7	3	.2	1.6	.1	.3	1.3	2.2	1.6	3.8	.2	.2	2.0
OREGON. E2	11	5	.6	5.3	.5	.9	3.9	9.9	7.1	16.7	.7	.5	5.9
CALIFORNIA. E1	157	67	4.6	39.6	3.8	7.5	28.8	69.9	40.6	109.1	3.3	4.2	49.2
3362-- BRASS, BRONZE, COPPER FOUNDRIES													
UNITED STATES.	507	195	15.4	129.6	13.0	25.7	96.3	236.9	229.5	465.3	17.4	17.9	226.8
NORTHEAST REGION.	173	62	5.8	48.1	4.8	9.5	34.9	79.2	70.7	148.1	(D)	7.4	82.9
NEW ENGLAND DIVISION. E2	63	22	1.1	8.1	.9	1.8	6.4	12.6	15.7	28.1	(D)	1.5	15.4
MASSACHUSETTS. E1	25	7	.5	4.0	.4	.8	3.2	6.4	9.0	15.2	(D)	.5	5.7
RHODE ISLAND. E3	14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. E3	20	9	.4	2.5	.3	.6	1.9	3.6	4.4	8.0	(D)	.6	5.8
MIDDLE ATLANTIC DIVISION.	110	40	4.8	40.0	3.9	7.6	28.5	66.6	55.0	120.0	(D)	5.9	67.6
NEW YORK. E1	35	11	.8	6.1	.6	1.3	4.5	9.0	8.8	17.9	(D)	1.4	14.5
NEW JERSEY.	21	8	.6	5.2	.4	.9	3.5	10.1	6.4	16.9	(D)	.8	8.8
PENNSYLVANIA.	54	21	3.4	28.7	2.8	5.5	20.6	47.4	39.8	85.3	(D)	3.8	44.3
NORTH CENTRAL REGION.	192	77	5.7	52.2	4.8	9.5	39.7	98.3	99.5	199.3	(D)	7.6	111.1
EAST NORTH CENTRAL DIVISION.	168	69	5.0	46.5	4.3	8.4	35.6	88.7	85.5	174.3	5.4	6.9	101.3
OHIO. E1	48	19	1.2	9.7	1.0	1.9	7.4	18.8	19.3	38.8	(D)	1.9	24.9
INDIANA. E1	18	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	7.1
ILLINOIS.	50	21	1.2	11.1	1.1	2.1	8.7	19.7	21.6	40.8	(D)	1.5	21.8
MICHIGAN. E1	37	13	1.1	10.9	1.0	1.8	8.3	21.4	20.4	42.2	(D)	1.3	18.0
WISCONSIN.	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	29.4
WEST NORTH CENTRAL DIVISION.	24	8	.7	5.7	.6	1.1	4.1	9.5	14.0	25.0	(D)	.7	9.8
MISSOURI.	11	4	.3	2.7	.2	.5	1.9	5.7	5.7	11.9	.3	.3	4.2
NEBRASKA.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION.	63	28	2.3	16.3	1.9	3.9	12.2	36.4	30.7	66.4	2.7	1.5	15.9
SOUTH ATLANTIC DIVISION.	29	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.0
NORTH CAROLINA.	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	10	5	.4	3.2	.4	.7	2.4	8.4	5.6	13.3	.2	.3	3.2
TENNESSEE.	4	3	.3	1.9	.2	.5	1.5	3.1	2.6	5.4	.1	.2	1.6
WEST SOUTH CENTRAL DIVISION.	24	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.8
ARKANSAS.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS.	14	7	.4	2.6	.3	.7	1.9	4.3	6.8	11.3	.1	BB	(D)
WEST REGION. E1	79	28	1.6	13.0	1.4	2.8	9.5	23.1	28.6	51.5	3.6	1.4	16.9
PACIFIC DIVISION. E1	66	25	1.5	12.4	1.3	2.7	9.1	22.1	27.9	49.8	3.5	EE	(D)
CALIFORNIA. E1	51	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	14.0

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3369-- NONFERROUS FOUNDRIES, NEC													
UNITED STATES.	329	167	20.3	174.0	16.9	34.4	130.3	314.0	276.4	588.6	17.3	26.6	324.1
NORTHEAST REGION. E2	113	50	5.1	40.9	4.2	8.5	30.9	72.1	55.9	128.5	(D)	5.1	55.3
NEW ENGLAND DIVISION. E3	29	8	.6	4.6	.5	1.0	3.2	11.1	9.2	20.3	(D)	.6	8.0
MASSACHUSETTS.	5	2	.2	1.4	.1	.3	1.1	2.4	1.2	3.6	(D)	(NA)	(NA)
CONNECTICUT. E4	11	4	.3	2.2	.2	.4	1.4	5.8	5.2	11.0	(D)	.3	3.7
MIDDLE ATLANTIC DIVISION. E2	84	42	4.5	36.3	3.8	7.5	27.7	61.0	46.7	108.3	(D)	4.4	47.4
NEW YORK.	54	26	3.4	27.3	2.9	5.7	20.9	47.5	29.5	76.7	(D)	1.8	18.3
NEW JERSEY.	20	11	.8	7.1	.7	1.4	5.2	11.0	15.6	27.3	(D)	2.2	24.8
PENNSYLVANIA.	10	5	.3	1.9	.2	.4	1.6	2.5	1.7	4.3	(D)	.4	4.2
NORTH CENTRAL REGION.	146	79	11.9	106.9	9.8	20.2	80.4	196.7	171.1	366.3	(D)	17.6	227.9
EAST NORTH CENTRAL DIVISION.	122	69	10.5	96.2	8.7	18.0	72.9	178.4	159.3	336.1	8.2	16.1	209.1
OHIO.	21	13	2.8	26.3	2.3	4.9	19.8	54.2	38.5	92.5	(D)	4.1	66.3
INDIANA.	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	23.0
ILLINOIS.	42	20	2.1	19.9	1.8	3.6	15.6	31.9	33.4	66.0	(D)	3.4	36.8
MICHIGAN. E1	45	29	4.2	37.9	3.5	7.2	28.2	71.2	66.1	136.1	(D)	6.4	79.9
WISCONSIN.	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.3
WEST NORTH CENTRAL DIVISION.	24	10	1.4	10.8	1.1	2.3	7.5	18.3	11.8	30.2	(D)	1.5	19.0
MINNESOTA.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
IOWA.	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSOURI.	14	6	.6	4.8	.5	1.0	3.8	8.7	5.3	13.9	.4	.4	5.6
SOUTH REGION.	20	12	1.3	8.6	1.1	2.2	6.4	13.2	20.7	34.0	1.8	1.3	12.6
EAST SOUTH CENTRAL DIVISION.	6	5	.9	5.8	.7	1.5	4.2	8.1	16.9	25.3	.8	.4	4.3
KENTUCKY.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.2
OKLAHOMA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	50	26	2.1	17.6	1.8	3.6	12.6	32.0	28.6	59.9	2.0	2.6	28.3
PACIFIC DIVISION.	44	25	2.0	16.9	1.7	3.4	12.1	30.7	28.1	58.1	1.9	FF	(D)
CALIFORNIA.	41	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	26.1

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Gray iron foundries (SIC 3321)	Malleable iron foundries (SIC 3322)	Steel investment foundries (SIC 3324)	Steel foundries, n.e.c. (SIC 3325)	Aluminum foundries (SIC 3361)	Brass, bronze, and copper foundries (SIC 3362)	Nonferrous foundries, n.e.c. (SIC 3369)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	94	87	86	89	84	84	83
COVERAGE RATIO ² DO . .	87	91	94	88	89	81	79
ESTABLISHMENTS, TOTAL NUMBER .	992	73	74	260	1 005	507	329
WITH 1 TO 19 EMPLOYEES. DO . .	270	9	12	59	575	312	162
WITH 20 TO 99 EMPLOYEES DO . .	430	14	41	85	317	170	109
WITH 100 EMPLOYEES OR MORE. DO . .	292	50	21	116	113	25	58
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	138.3	22.5	11.2	46.7	45.7	15.4	20.3
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	1 386.9	234.5	93.2	440.3	417.9	129.6	174.0
PRODUCTION WORKERS:							
AVERAGE FOR YEAR. 1,000	118.0	18.7	8.6	38.5	38.6	13.0	16.9
MARCH DO . .	116.2	18.4	8.8	38.1	37.2	12.6	16.3
MAY DO . .	117.6	18.9	8.5	38.5	38.2	12.9	16.7
AUGUST. DO . .	115.7	18.4	8.6	38.5	38.6	13.2	17.2
NOVEMBER. DO . .	122.4	19.2	8.8	39.3	40.1	13.1	17.7
MAN-HOURS MILLIONS	245.6	38.1	17.2	75.5	76.8	25.7	34.4
JANUARY-MARCH DO . .	59.9	9.4	4.4	18.5	18.8	6.3	8.3
APRIL-JUNE. DO . .	62.4	9.9	4.4	19.6	19.4	6.5	8.6
JULY-SEPTEMBER. DO . .	58.9	9.1	4.2	17.8	18.6	6.3	8.6
OCTOBER-DECEMBER. DO . .	64.4	9.7	4.1	19.6	20.1	6.5	9.0
WAGES MILLION DOLLARS .	1 119.4	184.3	63.3	337.4	321.9	96.3	130.3
COST OF MATERIALS, ETC., TOTAL DO . .	1 638.8	167.1	89.4	368.4	558.0	229.5	276.4
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO . .	1 349.6	135.7	74.5	296.7	483.7	206.0	224.0
COST OF RESALES DO . .	107.3	.6	1.1	13.7	9.1	5.8	11.6
FUELS CONSUMED. DO . .	101.2	12.8	2.3	18.6	17.1	4.4	6.1
PURCHASED ELECTRIC ENERGY DO . .	70.2	16.0	4.1	30.4	14.3	5.0	6.6
CONTRACT WORK DO . .	10.5	2.0	7.3	9.1	33.7	8.2	28.2
VALUE OF SHIPMENTS, INCLUDING RESALES DO . .	3 875.3	507.9	262.2	1 067.4	1 269.9	465.3	588.6
VALUE OF RESALES. DO . .	121.6	2.5	1.4	14.7	10.6	8.3	12.4
VALUE ADDED BY MANUFACTURE. DO . .	2 256.5	342.6	175.6	706.0	718.3	236.9	314.0
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL. DO . .	324.6	31.4	33.4	147.4	86.7	47.2	58.0
FINISHED PRODUCTS DO . .	139.6	7.6	2.3	46.1	17.6	14.8	13.7
WORK IN PROCESS DO . .	58.6	12.8	16.7	60.0	30.1	14.5	23.9
MATERIALS, SUPPLIES, FUEL, ETC. DO . .	126.5	11.0	14.4	41.4	39.1	17.9	20.4
END OF YEAR, TOTAL. DO . .	351.8	33.2	38.0	152.1	96.7	50.7	63.8
FINISHED PRODUCTS DO . .	152.6	5.6	2.3	50.1	18.5	13.1	12.9
WORK IN PROCESS DO . .	65.5	16.7	19.4	63.0	35.6	17.3	26.2
MATERIALS, SUPPLIES, FUEL, ETC. DO . .	133.7	10.9	16.3	39.0	42.7	20.3	24.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO . .	212.1	36.6	11.7	33.0	41.8	18.6	18.7
NEW PLANT AND EQUIPMENT, TOTAL. DO . .	202.5	34.9	11.1	31.5	38.8	17.4	17.3
NEW STRUCTURES AND ADDITIONS TO PLANT DO . .	26.0	3.9	5.1	4.2	5.8	4.3	3.5
NEW MACHINERY AND EQUIPMENT DO . .	176.5	31.0	6.0	27.3	33.0	13.1	13.8
USED PLANT AND EQUIPMENT. DO . .	9.6	1.7	.6	1.6	3.0	1.2	1.4

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

[illegible]

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establish- ments (number)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expendi- tures, new (million dollars)	End-of- year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3324-- STEEL INVESTMENT FOUNDRIES											
ESTABLISHMENTS, TOTAL.	74	11.2	93.2	8.6	17.2	63.3	175.6	89.4	262.2	11.1	38.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	1	.1	1.2	.1	.2	.8	1.7	1.3	3.2	.1	.2
5 TO 9 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	23	.7	6.1	.6	1.2	4.4	9.6	4.8	14.3	.3	1.2
50 TO 99 EMPLOYEES	15	1.1	8.6	.9	1.8	5.6	17.8	7.4	25.1	.7	2.3
100 TO 249 EMPLOYEES	12	2.0	16.2	1.6	3.2	11.5	25.5	14.0	39.5	1.4	4.7
250 TO 499 EMPLOYEES	6	2.2	17.5	1.9	3.6	13.5	23.3	13.1	35.8	4.7	6.3
500 TO 999 EMPLOYEES	5	5.0	43.4	3.5	7.1	27.6	97.7	48.7	144.3	3.8	23.3
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3325-- STEEL FOUNDRIES, NEC											
ESTABLISHMENTS, TOTAL.	260	46.7	440.3	38.5	75.5	337.4	706.0	368.4	1 067.4	31.5	152.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	28	.1	.5	.1	.1	.3	1.2	.7	1.8	.1	.2
5 TO 9 EMPLOYEES E6	16	.1	1.0	.1	.2	.6	1.8	1.1	2.9	.1	.3
10 TO 19 EMPLOYEES E1	15	.2	2.0	.2	.4	1.4	3.7	2.5	6.6	.4	.3
20 TO 49 EMPLOYEES E1	45	1.5	13.3	1.2	2.5	9.7	23.8	13.2	37.5	1.2	3.4
50 TO 99 EMPLOYEES E1	40	3.0	27.3	2.4	4.8	20.3	44.8	22.7	67.5	2.2	5.7
100 TO 249 EMPLOYEES	58	9.0	80.5	7.5	14.9	61.4	145.1	75.9	219.8	5.7	20.6
250 TO 499 EMPLOYEES	35	12.3	115.6	10.0	19.9	88.3	185.7	96.0	278.9	10.0	33.5
500 TO 999 EMPLOYEES	16	12.0	115.7	9.9	19.1	89.8	185.3	85.2	271.7	7.2	32.8
1,000 TO 2,499 EMPLOYEES	7	8.6	84.5	7.1	13.6	65.4	114.6	71.1	180.7	4.5	55.3
ESTABS. COVERED BY ADMIN. RECORD ¹ .	29	.1	.8	.1	.2	.6	1.7	.9	2.7	.1	.3
3361-- ALUMINUM FOUNDRIES											
ESTABLISHMENTS, TOTAL.	1 005	45.7	417.9	38.6	76.8	321.9	718.3	558.0	1 269.9	38.8	196.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	282	.5	4.3	.5	.9	3.3	9.2	6.5	15.7	.6	1.2
5 TO 9 EMPLOYEES E6	135	.9	7.3	.8	1.5	5.5	13.0	9.2	22.2	.8	1.6
10 TO 19 EMPLOYEES E1	158	2.2	17.5	1.9	3.6	13.2	33.4	17.7	50.8	1.4	2.9
20 TO 49 EMPLOYEES E1	220	7.0	52.4	5.9	11.2	40.0	87.3	57.6	144.2	4.7	9.1
50 TO 99 EMPLOYEES E1	97	6.8	55.1	5.7	11.5	42.2	98.3	63.9	161.7	4.7	10.3
100 TO 249 EMPLOYEES	78	11.8	102.7	9.9	20.0	77.7	177.9	144.9	319.4	9.6	25.2
250 TO 499 EMPLOYEES	27	8.9	88.3	7.4	15.2	66.8	143.8	107.6	250.4	6.1	23.0
500 TO 999 EMPLOYEES	4	3.1	33.3	2.6	5.1	26.2	65.5	55.2	120.6	4.1	11.6
1,000 TO 2,499 EMPLOYEES	4	4.5	57.0	3.8	7.9	47.0	90.0	95.2	184.8	6.8	11.9
ESTABS. COVERED BY ADMIN. RECORD ¹ .	336	1.1	8.8	1.0	1.9	6.7	15.2	12.4	27.7	1.0	2.4
3362-- BRASS, BRONZE, COPPER FOUNDRIES											
ESTABLISHMENTS, TOTAL.	507	15.4	129.6	13.0	25.7	96.3	236.9	229.5	465.3	17.4	50.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	111	.2	1.6	.2	.4	1.2	3.1	3.0	6.3	.4	.7
5 TO 9 EMPLOYEES E5	82	.6	4.5	.5	.9	3.2	8.9	7.2	16.1	.3	1.3
10 TO 19 EMPLOYEES E1	119	1.7	13.3	1.4	2.7	9.5	27.4	20.2	47.1	.9	3.8
20 TO 49 EMPLOYEES E1	122	3.7	29.7	3.1	6.1	21.8	53.9	58.7	112.7	4.5	8.5
50 TO 99 EMPLOYEES	48	3.4	28.5	2.8	5.7	21.5	50.8	62.3	113.2	4.3	12.2
100 TO 249 EMPLOYEES	18	2.6	22.4	2.2	4.4	17.5	38.5	39.8	79.4	2.9	8.3
250 TO 499 EMPLOYEES	5	3.3	29.7	2.6	5.4	21.6	54.3	38.4	90.5	4.1	15.9
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	136	.5	3.4	.4	.8	2.5	6.9	6.2	13.2	.4	1.5
3369-- NONFERROUS FOUNDRIES, NEC											
ESTABLISHMENTS, TOTAL.	329	20.3	174.0	16.9	34.4	130.3	314.0	276.4	588.6	17.3	61.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	71	.1	1.1	.1	.2	.8	5.3	4.4	9.7	.4	1.0
5 TO 9 EMPLOYEES E9	40	.3	1.9	.2	.4	1.3	4.3	3.8	8.1	.2	.8
10 TO 19 EMPLOYEES E1	51	.7	5.3	.6	1.1	3.8	10.0	12.8	22.8	.4	1.3
20 TO 49 EMPLOYEES E1	72	2.3	17.9	1.9	3.8	12.2	31.6	25.0	56.4	1.4	4.9
50 TO 99 EMPLOYEES E1	37	2.6	20.4	2.2	4.4	15.3	35.0	41.8	77.3	2.5	5.8
100 TO 249 EMPLOYEES	40	5.5	43.8	4.5	9.3	32.1	82.3	69.6	150.6	4.1	17.8
250 TO 499 EMPLOYEES	13	4.1	35.5	3.4	7.0	26.3	57.6	57.7	114.7	2.7	14.7
500 TO 999 EMPLOYEES	3	4.8	48.0	4.0	8.2	38.4	88.0	61.4	149.1	5.5	17.6
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	86	.3	2.4	.3	.5	1.7	6.2	5.4	11.6	.2	1.2

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (2) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3321	GRAY IRON FOUNDRIES										
	ENTIRE INDUSTRY	992	138.3	1 386.9	118.0	245.6	1 119.4	2 256.5	1 638.8	3 875.3	202.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	922	124.9	1 268.5	107.2	223.5	1 028.1	2 057.0	1 479.4	3 521.1	186.1
33215	DUCTILE IRON CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	46	8.9	87.7	7.5	15.9	68.9	147.9	121.1	267.7	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	25	3.5	27.1	3.1	6.2	21.8	48.6	39.8	88.4	2.8
33216	MOLDS FOR HEAVY STEEL INGOTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	18	3.9	44.1	3.3	6.5	33.8	66.0	130.1	191.1	5.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	14	3.7	42.4	3.1	6.2	32.3	62.5	126.2	183.7	4.9
33217	CAST IRON PRESSURE PIPE, FITTINGS (EXC. DUCTILE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	23	9.7	89.6	7.8	16.3	67.4	178.5	185.4	360.0	15.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	11	2.8	23.4	2.3	4.8	17.4	50.2	52.0	101.6	5.6
33218	CAST IRON SOIL PIPE AND FITTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	21	10.7	81.0	9.2	17.5	66.0	139.0	132.3	268.2	6.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33219	OTHER GRAY IRON CASTINGS (EXC. DUCTILE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	615	100.0	1 043.7	85.8	180.9	850.6	1 654.3	1 022.8	2 670.2	161.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	503	69.5	703.1	59.8	124.9	569.6	1 071.7	628.4	1 696.1	118.1
3322	MALLEABLE IRON FOUNDRIES										
	ENTIRE INDUSTRY	73	22.5	234.5	18.7	38.1	184.3	342.6	167.1	507.9	34.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	63	17.1	175.1	14.2	28.6	137.9	253.1	120.3	372.0	26.5
33221	STANDARD MALLEABLE CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	60	16.7	161.6	14.0	28.1	129.6	245.3	108.2	351.9	14.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	48	10.3	94.4	8.7	16.8	76.7	137.0	61.0	197.0	8.6
33222	PEARLITIC MALLEABLE CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	6	5.8	72.4	4.6	9.8	54.3	96.7	58.6	155.0	20.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3324	STEEL INVESTMENT FOUNDRIES										
	ENTIRE INDUSTRY	74	11.2	93.2	8.6	17.2	63.3	175.6	89.4	262.2	11.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	57	8.7	73.7	6.7	13.5	50.0	150.1	74.4	221.2	10.3
3325	STEEL FOUNDRIES, NEC										
	ENTIRE INDUSTRY	260	46.7	440.3	38.5	75.5	337.4	706.0	368.4	1 067.4	31.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	228	28.0	259.5	23.2	45.4	200.8	425.4	214.7	635.7	20.3
33252	CARBON STEEL CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	99	25.0	228.6	20.9	40.6	178.0	363.6	178.3	539.8	16.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	70	16.9	155.8	14.3	27.7	123.1	252.4	123.1	374.8	12.4
33254	HIGH ALLOY STEEL CASTINGS (EXCEPT INVESTMENT) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	43	5.1	45.3	4.0	7.9	32.4	76.6	46.3	121.7	3.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	22	2.9	25.0	2.3	4.5	18.8	39.6	27.3	66.8	1.9
33255	OTHER ALLOY STEEL CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	52	15.5	155.5	12.6	25.2	118.7	248.5	133.9	378.3	10.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	27	7.0	68.0	5.6	11.4	50.8	116.4	54.6	167.0	4.9
3361	ALUMINUM FOUNDRIES										
	ENTIRE INDUSTRY	1 005	45.7	417.9	38.6	76.8	321.9	718.3	558.0	1 269.9	38.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	853	31.6	289.5	26.8	53.7	224.9	491.2	402.5	891.5	30.9
33611	ALUMINUM AND ALUMINUM-BASE ALLOY DIE CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	128	20.9	209.3	17.5	35.7	162.3	351.1	312.5	661.7	20.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	70	8.6	79.4	7.3	15.1	62.2	136.0	119.1	255.0	8.3
33612	OTHER ALUM., ALUMINUM-BASE ALLOY CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	378	19.1	164.4	16.2	31.7	125.7	286.4	178.2	461.8	12.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	280	13.8	117.7	11.7	22.8	89.7	204.4	126.0	328.5	9.3
3362	BRASS, BRONZE, COPPER FOUNDRIES										
	ENTIRE INDUSTRY	507	15.4	129.6	13.0	25.7	96.3	236.9	229.5	465.3	17.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	417	11.0	89.1	9.2	18.4	65.3	162.7	167.2	328.3	12.1
3369	NONFERROUS FOUNDRIES, NEC										
	ENTIRE INDUSTRY	329	20.3	174.0	16.9	34.4	130.3	314.0	276.4	588.6	17.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	280	15.8	134.4	13.2	26.8	100.5	243.2	216.6	457.8	12.9
33691	ZINC AND ZINC-BASE ALLOY CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	130	13.5	114.6	11.4	23.1	86.9	196.0	188.0	382.0	10.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	97	10.5	89.3	8.9	17.9	68.0	151.3	149.7	300.0	8.2
33692	MAGNESIUM, MAGNESIUM-BASE ALLOY CASTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	1.2	10.1	.9	1.9	7.0	15.1	9.9	25.2	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	9	.3	2.4	.2	.5	1.7	4.0	4.9	8.8	.3
33693	OTHER NONFERR. CASTINGS (EXCL. ZINC, MAGNESIUM) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	29	2.4	22.0	1.9	4.1	15.7	49.0	30.2	79.2	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	25	2.3	20.7	1.8	3.9	14.7	45.8	29.5	75.3	1.5

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio— Col. B Col. B & C	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3321	Gray iron foundries.....1972..	3,875.3	3,507.1	232.4	135.8	94	4,033.8	3,507.1	526.7	87
	.....1967..	2,637.8	2,365.2	180.4	92.2	93	2,740.4	2,365.2	375.2	86
3322	Malleable iron foundries.....1972..	507.9	439.0	65.2	3.7	87	484.8	439.0	45.8	91
	.....1967..	438.3	370.5	65.2	2.6	85	417.2	370.5	46.7	89
3324	Steel investment foundries.....1972..	262.2	224.5	35.4	2.3	86	237.7	224.5	13.2	94
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3325	Steel foundries, n.e.c.....1972..	1,067.4	922.0	116.3	29.1	89	1,050.3	922.0	128.3	88
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3361	Aluminum foundries.....1972..	1,269.9	1,047.4	205.8	16.7	84	1,172.3	1,047.4	124.9	89
	.....1967..	920.5	753.4	149.4	17.7	83	885.4	753.4	132.0	85
3362	Brass, bronze, and copper foundries.....1972..	465.3	377.0	73.0	15.3	84	462.9	377.0	85.9	81
	.....1967..	445.2	354.9	74.9	15.4	83	432.3	354.9	77.4	82
3369	Nonferrous foundries, n.e.c.....1972..	588.6	473.8	100.0	14.8	83	603.5	473.8	129.7	79
	.....1967..	556.3	452.8	94.4	9.1	83	551.3	452.8	98.5	82

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down the industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Gray iron foundries (SIC 3321)	Malleable iron foundries (SIC 3322)	Steel investment foundries (SIC 3324)	Steel foundries, n.e.c. (SIC 3325)	Aluminum foundries (SIC 3361)	Brass, bronze, and copper foundries (SIC 3362)	Nonferrous foundries, n.e.c. (SIC 3369)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	3,875.3	507.9	262.2	1,067.4	1,269.9	465.3	588.6	(X)
3321-	Gray iron castings.....	4,033.8	3,507.1	37.0	(under 2)	23.5	5.7	3.1	(under 2)	455.4
33215	Ductile iron castings.....	605.4	570.4	(20-50)	-	2.2	3.5	(Z)	-	(5-10)
33216	Molds and steels for heavy steel ingots.....	312.0	188.2	-	-	-	-	-	-	123.8
33217	Cast iron pressure pipe and fittings, except ductile.....	245.4	233.0	(under 2)	-	-	-	-	(Z)	(10-20)
33218	Cast iron soil pipe and fittings.....	220.2	212.0	-	-	-	-	-	-	8.2
33219	Other gray iron castings, except ductile.....	2,546.2	2,199.3	14.6	(under 2)	21.4	2.2	3.1	(under 2)	303.7
33210	Gray iron castings, n.s.k.....	104.6	104.2	-	-	-	(Z)	-	-	.4
3322-	Malleable iron castings.....	484.8	23.5	439.0	-	(2-5)	(Z)	-	(under 2)	18.9
33221	Standard malleable iron castings.....	345.8	(10-20)	320.0	-	(under 2)	(Z)	-	(under 2)	10.9
33222	Pearlitic malleable iron castings.....	129.3	(5-10)	(100-200)	-	(under 2)	-	-	-	1.4
33220	Malleable iron castings, n.s.k.	9.7	(over 2)	(under 2)	-	(under 2)	-	-	-	6.8
33240	Steel investment castings.....	237.7	(Z)	(over 2)	224.5	6.0	(under 2)	(under 2)	(Z)	2.4
3325-	Steel castings, n.e.c.....	1,050.3	25.3	(under 2)	(under 2)	922.0	(over 2)	(10-20)	(under 2)	83.9
33252	Carbon steel castings, except investment.....	543.7	13.1	-	(under 2)	482.6	-	(under 2)	(under 2)	45.5
33254	High alloy steel castings, except investment.....	127.7	5.6	(under 2)	(under 2)	115.1	(over 2)	(Z)	(under 2)	3.9
33255	Other alloy steel castings, except investment.....	346.5	6.6	-	(under 2)	292.4	(under 2)	(10-20)	-	34.0
33250	Steel castings, n.s.k.....	32.4	-	-	-	31.8	-	-	-	.6

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Gray iron foundries (SIC 3321)	Malleable iron foundries (SIC 3322)	Steel investment foundries (SIC 3324)	Steel foundries, n.e.c. (SIC 3325)	Aluminum foundries (SIC 3361)	Brass, bronze, and copper foundries (SIC 3362)	Nonferrous foundries, n.e.c. (SIC 3369)	Other industries
3361-	Aluminum castings.....	1,172.3	14.4	(under 2)	4.2	2.6	1,047.4	30.4	38.1	(20-50)
33611	Aluminum and aluminum-base alloy die castings.....	532.6	(under 2)	-	-	-	490.3	(5-10)	29.9	6.7
33612	Other aluminum and aluminum-base alloy castings.....	509.7	13.9	(under 2)	4.2	2.6	434.8	24.9	(5-10)	22.7
33610	Aluminum and aluminum-base alloy castings, n.s.k.....	130.0	(under 2)	-	(Z)	-	122.4	(under 2)	(2-5)	(2-5)
3362	Brass, bronze, and copper castings.....	462.9	10.7	(Z)	2.0	11.6	26.8	377.0	1.7	33.1
3369	Nonferrous castings, n.e.c.....	603.5	4.8	(under 2)	(under 2)	(under 2)	94.3	1.9	473.8	27.0
33691	Zinc and zinc-base alloy castings.....	401.6	-	-	-	-	80.0	(under 2)	313.9	(5-10)
33692	Magnesium and magnesium-base alloy castings.....	41.3	3.3	(under 2)	-	(under 2)	5.8	(under 2)	25.9	5.5
33693	Other nonferrous castings.....	94.7	(under 2)	-	(under 2)	(under 2)	(5-10)	1.0	72.2	12.5
33690	Nonferrous castings, n.s.k.....	65.9	(under 2)	-	(Z)	(Z)	(under 2)	-	61.8	(2-5)
	Other product shipments by 4-digit product group:									
3079	Miscellaneous plastics products.....	(X)	(under 2)	-	-	(under 2)	(under 2)	-	17.5	(X)
3312	Blast furnaces and steel mills	(X)	(under 2)	-	-	(5-10)	-	-	-	(X)
3317	Steel pipe and tubes.....	(X)	(10-20)	-	-	-	-	-	-	(X)
3339	Primary nonferrous metals, n.e.c.....	(X)	-	-	-	-	-	-	(10-20)	(X)
3341	Secondary nonferrous metals...	(X)	-	-	-	-	(10-20)	(under 2)	(under 2)	(X)
3399	Primary metal products, n.e.c.	(X)	(under 2)	-	(under 2)	-	-	-	(2-5)	(X)
3423	Hand and edge tools, n.e.c....	(X)	-	(5-10)	-	-	(under 2)	-	-	(X)
3433	Heating equipment, except electric, n.e.c.....	(X)	5.5	-	(under 2)	(under 2)	-	(under 2)	-	(X)
3441	Fabricated structural metal...	(X)	5.4	-	(under 2)	(under 2)	-	-	-	(X)
3443	Fabricated platework (boiler shops).....	(X)	(10-20)	-	(2-5)	-	-	-	-	(X)
3462	Iron and steel forgings.....	(X)	(under 2)	-	-	(2-5)	-	(under 2)	-	(X)
3479	Metal coating and allied services.....	(X)	(under 2)	(under 2)	(5-10)	-	-	-	-	(X)
3494	Valves and pipe fittings.....	(X)	(5-10)	-	-	(under 2)	(under 2)	(under 2)	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	-	-	(10-20)	-	-	(under 2)	(X)
3523	Farm machinery and equipment..	(X)	(5-10)	-	-	-	(under 2)	-	-	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	2.0	.1	2.3	(under 2)	21.0	1.6	11.6	(X)
3547	Rolling mill machinery.....	(X)	(under 2)	-	(2-5)	(5-10)	-	-	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	(under 2)	-	(under 2)	(under 2)	(2-5)	(under 2)	-	(X)
3565	Industrial patterns.....	(X)	16.1	3.3	1.6	7.6	11.3	1.6	1.7	(X)
3568	Power transmission equipment, n.e.c.....	(X)	(2-5)	-	-	(under 2)	-	(5-10)	-	(X)
3569	General industrial machinery, n.e.c.....	(X)	(under 2)	(5-10)	(under 2)	(2-5)	-	-	-	(X)
3592	Carburetors, pistons, rings, valves.....	(X)	-	-	-	-	(5-10)	-	-	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	3.0	-	(2-5)	2.2	2.9	(under 2)	(under 2)	(X)
3647	Vehicular lighting equipment..	(X)	-	-	-	-	-	-	(2-5)	(X)
3676	Electronic resistors.....	(X)	-	-	-	-	-	(2-5)	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	(50-100)	-	-	(5-10)	(2-5)	(under 2)	-	(X)
3743	Railroad equipment.....	(X)	(2-5)	-	(under 2)	(under 2)	-	-	-	(X)
3795	Tanks and tank components.....	(X)	-	-	-	(5-10)	-	-	-	(X)
	Miscellaneous receipts, total...	(X)	135.8	3.7	2.3	29.1	16.7	15.3	14.8	(X)
93000	Receipts for contract work....	(X)	4.3	(under 2)	.5	8.5	1.5	3.8	1.5	(X)
99989	Receipts for resales.....	(X)	121.6	2.5	1.4	14.7	10.6	8.3	12.4	(X)
99980	Sales of scrap.....	(X)	1.5	(under 2)	.1	(under 2)	1.4	1.8	.5	(X)
99980	Receipts for repair work.....	(X)	1.5	(under 2)	(under 2)	(under 2)	.3	.3	.1	(X)
99980	Other miscellaneous receipts..	(X)	6.9	(under 2)	(under 2)	5.7	2.9	1.1	.3	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued	
3321-	3312 Blast furnaces and steel mills.....	147.5	3325-	2499 Wood products, n.e.c.....	(2-5)
	3433 Heating equipment, except electric.....	7.5		3312 Blast furnaces and steel mills.....	24.9
	3441 Fabricated structural metal.....	(2-5)		3469 Metal stampings, n.e.c.....	(2-5)
	3494 Valves and pipe fittings.....	6.0		3531 Construction machinery.....	7.7
	3519 Internal combustion engines, n.e.c.....	4.8		3547 Rolling mill machinery.....	(10-20)
	3523 Farm machinery and equipment.....	(20-50)		3566 Speed changers, drives and gears.....	(5-10)
	3531 Construction machinery.....	4.2		3743 Railroad equipment.....	(2-5)
				3795 Tanks and tank components.....	(2-5)
	3541 Machine tools, metal cutting type.....	5.7	3361-	3519 Internal combustion engines, n.e.c.....	(2-5)
	3544 Special dies, tools, jigs and fixtures.....	(2-5)		3523 Farm machinery and equipment.....	(2-5)
	3547 Rolling mill machinery.....	(10-20)		3561 Pumps and pumping equipment.....	(2-5)
	3552 Textile machinery.....	8.2		3565 Industrial patterns.....	2.3
	3554 Paper industries machinery.....	(5-10)		3592 Service industry machines, n.e.c.....	9.2
	3559 Special industry machinery, n.e.c.....	3.1		3599 Machinery, except electrical, n.e.c.....	2.0
	3561 Pumps and pumping equipment.....	8.0		3635 Household vacuum cleaners.....	(2-5)
			3362-	3351 Copper rolling and drawing.....	10.9
	3566 Speed changers, drives, and gears.....	2.3		3494 Valves and pipe fittings.....	(2-5)
	3585 Refrigeration and heating equipment.....	2.2		3568 Power transmission equipment, n.e.c.....	2.3
	3592 Service industry machinery.....	(2-5)		3714 Motor vehicles parts and accessories.....	(5-10)
	3599 Machinery except electrical, n.e.c.....	2.9	3369-	2816 Inorganic pigments.....	(2-5)
	3711 Motor vehicles and car bodies.....	(50-100)		3079 Miscellaneous plastics products.....	(2-5)
	3714 Motor vehicles parts and accessories.....	(100-200)		3339 Primary nonferrous metals, n.e.c.....	(2-5)
	3743 Railroad equipment.....	(2-5)		3356 Nonferrous rolling and drawing, n.e.c.....	(10-20)
3322-	3494 Valves and pipe fittings.....	(2-5)		3623 Welding apparatus, electric.....	(2-5)
	3535 Conveyors and conveying equipment.....	(2-5)			
	3568 Power transmission equipment, n.e.c.....	(2-5)			

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars).

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers		Shipments to other companies		Transfers to other plants of same company	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
			1972					
3321- --	GRAY IRON CASTINGS, TOTAL ¹		² 14,237.9	4,033.8	(X)	(NA)	(X)	(NA)
33215 --	Ductile Iron Castings.....	1,000 s. tons.	1,730.2	605.4	1,290.8	451.8	439.4	153.6
	Cast iron pressure pipe and fittings:							
33215 33	Under 14 inches (inside diameter).....	...do....	373.0	92.1	1,290.8	451.8	439.4	153.6
33215 35	14 inches and over (inside diameter).....	...do....	349.7	76.0				
33215 71	Miscellaneous ductile iron castings.....	...do....	1,007.5	437.3				
33216 11	Molds and stools for heavy steel ingots.....	...do....	2,727.8	312.0	1,766.2	197.9	961.6	114.1
33217 --	Cast Iron Pressure Pipe and Fittings, Except Ductile ³.....	...do....	1,264.8	245.4	² 1,264.8	245.4	(X)	(X)
33217 22	6 inches and under (inside diameter).....	...do....	429.0	83.9	429.0	83.9	(X)	(X)
33217 24	Over 6 inches up to and including 8 inches (inside diameter).....	...do....	365.8	67.9	365.8	67.9	(X)	(X)
33217 26	Over 8 inches up to but not including 14 inches (inside diameter).....	...do....	402.5	78.9	402.5	78.9	(X)	(X)
33217 45	14 inches and over (inside diameter).....	...do....	53.6	12.0	53.6	12.0	(X)	(X)
33217 00	Cast iron pressure pipe and fittings, n.s.k.....	...do....	^e 13.9	2.7	^e 13.9	2.7	(X)	(X)
33218 --	Cast Iron Soil Pipe and Fittings.....	1,000 s. tons.	² 1,009.4	220.2	² 1,009.4	220.2	(X)	(X)
33218 21	Up to 3 inches (inside diameter).....	...do....	267.5	61.1	267.5	61.1	(X)	(X)
33218 31	Over 3 inches up to but not including 5 inches (inside diameter).....	...do....	541.2	116.0	541.2	116.0	(X)	(X)
33218 41	5 inches and over (inside diameter).....	...do....	188.3	40.4	188.3	40.4	(X)	(X)
33218 00	Cast iron soil pipe and fittings, n.s.k.....	...do....	^e 12.4	2.7	^e 12.4	2.7	(X)	(X)
33219 --	Other Gray Iron Castings, Except Ductile ³.....	...do....	² 7,136.5	2,546.2	(X)	(NA)	(X)	(NA)
33219 23	White iron.....	...do....	23.9	14.4	5,075.8	1,871.4	1,925.6	626.6
33219 31	Rolls for rolling mills.....	...do....	122.9	83.1				
33219 98	All other gray iron castings.....	...do....	6,854.6	2,400.5				
33219 00	Other Gray Iron Castings, Except Ductile, n.s.k. for establishments with 10 employees or more. (See note.).....	...do....	^e 135.1	48.2	(X)	(NA)	(X)	(NA)
33210 00	Gray iron castings, n.s.k., for establishments with 10 employees or more. (See note.).....	...do....	^e 331.8	94.0	(X)	(NA)	(X)	(NA)
33210 02	Gray iron castings, n.s.k., for establishments with less than 10 employees. (See note.).....	...do....	[■] 37.4	10.6	(X)	(NA)	(X)	(NA)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers		Shipments to other companies		Transfers to other plants of same company	
			Quantity	Value	Quantity	Value	Quantity	Value
				(million dollars)		(million dollars)		(million dollars)
1972								
3322- --	MALLEABLE IRON CASTINGS ¹		² 958.5	484.8	² 681.6	361.9	274.2	121.5
33221 31	Standard malleable iron castings.....	1,000 s. tons.	676.6	345.8	662.4	353.6	274.2	121.5
33222 21	Pearlitic malleable iron castings.....	...do....	262.7	129.3				
33220 00	Malleable iron castings, n.s.k., for establishments principally with 10 employees or more. (See note.).....		^e 18.6	9.4	^e 18.6	9.4	-	-
33220 02	Malleable iron castings, n.s.k., for establishments with less than 10 employees. (See note.).....		^e .6	.3	^e .6	.3	-	-
3324- --	STEEL INVESTMENT CASTINGS, TOTAL.....		² 40,638.9	237.7	(X)	(NA)	(X)	(NA)
33240 63	Carbon, including low alloy.....	1,000 lbs.	12,089.3	60.8	11,163.5	53.6	925.8	7.2
33240 65	Alloy, including stainless.....	...do....	26,224.4	163.3	26,023.7	161.9	200.7	1.4
33240 00	Steel investment castings, n.s.k., for establishments with 10 employees or more. (See note.).....	...do....	^e 2,325.2	13.6	(X)	(NA)	(X)	(NA)
3325- --	STEEL CASTINGS, N.E.C. ¹		² 1,405.9	1,050.3	(X)	(NA)	(X)	(NA)
33252 --	Carbon Steel Castings, Except Investment.....		² 905.9	543.7	(X)	(NA)	(X)	(NA)
33252 12	Cast steel railroad car wheels.....	1,000 s. tons.	427.0	171.4	⁴ 427.0	⁴ 171.4	-	-
33252 13	Railway specialties, except cast railroad car wheels.....	...do....					(⁴)	(⁴)
33252 15	Rolls for rolling mills.....	...do....	470.6	367.3	470.6	⁴ 367.3	(⁴)	(⁴)
33252 19	Other carbon steel castings.....	...do....						
33252 00	Carbon steel castings, n.s.k.....	...do....	^e 8.3	5.0	(X)	(NA)	(X)	(NA)
33254 --	High Alloy Steel Castings, Except Investment.....	...do....	63.3	127.7	(NA)	(NA)	(NA)	(NA)
33254 21	High manganese steel castings.....	...do....	17.0	16.4	⁴ 17.0	⁴ 16.4	(⁴)	(⁴)
33254 31	High alloy steel castings ⁵.....	...do....	46.3	111.3	42.2	103.5	4.1	7.8
33255 --	Other Alloy Steel Castings, Except Investment ⁶		² 393.3	346.5	(X)	(NA)	(X)	(NA)
33255 51	Railway specialties.....	1,000 s. tons.	44.9	26.1	⁴ 44.9	⁴ 26.1	(⁴)	(⁴)
33255 55	Rolls for rolling mills.....	...do....	64.1	51.8	⁴ 64.1	⁴ 51.8	(⁴)	(⁴)
33255 59	Other alloy steel castings.....	...do....	274.2	259.7	265.2	246.1	9.0	13.6
33255 00	Other alloy castings, n.s.k.....	...do....	^e 10.1	8.9	(X)	(NA)	(X)	(NA)
33250 00	Steel castings, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		^e 43.0	32.1	(X)	(NA)	(X)	(NA)
33250 02	Steel castings, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		^e .4	.3	(X)	(NA)	(X)	(NA)
1967								
3321- --	GRAY IRON CASTINGS, TOTAL ¹		(X)	2,740.4	(X)	(NA)	(X)	(NA)
33216 11	Molds and stools for heavy steel ingots.....	1,000 s. tons.	2,580.5	242.9	1,410.5	142.6	1,170.0	100.3
33217 --	Cast Iron Pressure Pipe and Fittings ⁷.....	...do....	1,794.4	263.2	1,794.2	263.2	(X)	(X)
33217 22	6 inches and under (inside diameter) ⁷.....	...do....	515.2	74.5	515.2	74.5	(X)	(X)
33217 24	Over 6 inches up to and including 8 inches (inside diameter) ⁷....	...do....	379.9	51.8	379.9	51.8	(X)	(X)
33217 26	Over 8 inches up to but not including 14 inches (inside diameter) ⁷....	...do....	523.4	70.4	523.4	70.4	(X)	(X)
33217 45	14 inches and over (inside diameter) ⁷.....	...do....	375.9	64.3	375.9	64.3	(X)	(X)
33217 00	Cast iron pressure pipe and fittings, n.s.k. ⁷.....	...do....	(X)	2.2	(X)	2.2	(X)	(X)
33218 --	Cast Iron Soil Pipe and Fittings.....	1,000 s. tons.	927.1	156.0	927.1	156.0	(X)	(X)
33218 21	Up to 3 inches (inside diameter).....	...do....	268.6	46.9	268.6	46.9	(X)	(X)
33218 31	Over 3 inches up to but not including 5 inches (inside diameter)....	...do....	515.1	80.2	515.1	80.2	(X)	(X)
33218 41	5 inches and over (inside diameter).....	...do....	143.4	26.8	143.4	26.8	(X)	(X)
33218 00	Cast iron soil pipe and fittings, n.s.k.....	...do....	(X)	2.1	(X)	2.1	(X)	-
33219 --	Other Gray Iron Castings ⁷	1,000 s. tons.	6,395.8	1,960.8	4,308.4	1,390.4	2,087.4	570.4
33219 23	White iron.....	...do....	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)
33219 31	Rolls for rolling mills.....	...do....	131.1	76.8	121.3	70.3	9.8	6.5
33219 98	All other gray iron castings ⁷.....	...do....	⁸ 6,264.7	⁸ 1,884.0	⁸ 4,187.1	⁸ 1,320.1	⁸ 2,077.8	⁸ 563.9
33210 00	Gray iron castings, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	110.5	(X)	(NA)	(X)	(NA)
33210 02	Gray iron castings, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	7.0	(X)	(NA)	(X)	(NA)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments in- cluding interplant transfers		Shipments to other companies		Transfers to other plants of same company	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
			1967					
3322- --	MALLEABLE IRON CASTINGS ¹.....	.....	(X)	417.2	(X)	314.8	(X)	102.4
33221 31	Standard malleable iron castings.....	1,000 s. tons.	697.5	306.8	684.8	308.9	283.9	102.4
33222 21	Pearlitic malleable iron castings.....	..do....	271.2	104.5				
33220 00	Malleable iron castings, n.s.k., for establishments principally with 10 employees or more. (See note.).....	.....	(X)	5.8	(X)	5.8	-	-
33220 02	Malleable iron castings, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	.1	(X)	.1	-	-
3324- --	STEEL INVESTMENT CASTINGS, TOTAL.....	.....	(X)	167.6	(X)	(NA)	(X)	(NA)
33240 63	Carbon, including low alloy.....	1,000 lbs.	15,800.0	80.3	⁴ 15,800.0	⁴ 80.3	(⁴)	(⁴)
33240 65	Alloy, including stainless.....	..do....	13,000.0	85.1	⁴ 13,000.0	⁴ 85.1	(⁴)	(⁴)
33240 00	Steel investment castings, n.s.k., for establishments with 10 employees or more. (See note.).....	..do....	(X)	2.2	(X)	(NA)	(X)	(NA)
3325- --	STEEL CASTINGS, N.E.C. ¹.....	.....	(X)	1,042.1	(X)	(NA)	(X)	(NA)
33252 --	Carbon Steel Castings, Except Investment.....	.....	(X)	619.0	(X)	(NA)	(X)	(NA)
33252 12	Cast steel railroad car wheels.....	1,000 s. tons.	185.6	43.3	185.6	43.3	(X)	-
33252 13	Railway specialties, except cast railroad car wheels.....	..do....	366.9	168.8	364.1	166.8	2.8	2.0
33252 15	Rolls for rolling mills.....	..do....	28.8	19.9	⁴ 28.8	⁴ 19.9	(⁴)	(⁴)
33252 19	Other carbon steel castings.....	..do....	566.9	383.1	533.9	359.8	33.0	23.3
33252 00	Carbon steel castings, n.s.k.....	..do....	(X)	3.9	(X)	(NA)	(X)	(NA)
33254 --	High Alloy Steel Castings, Except Investment.....	..do....	132.9	165.4	(NA)	(NA)	(NA)	(NA)
33254 21	High manganese steel castings.....	..do....	65.3	48.1	⁴ 65.3	⁴ 48.1	(⁴)	(⁴)
33254 31	High alloy steel castings ⁵.....	..do....	67.6	117.3	64.1	107.1	3.5	10.2
33255 --	Other Alloy Steel Castings, Except Investment.....	.....	(X)	224.6	(X)	(NA)	(X)	(NA)
33255 51	Railway specialties.....	1,000 s. tons.	62.0	30.4	62.0	30.4	-	-
33255 55	Rolls for rolling mills.....	..do....	53.3	34.0	⁴ 53.3	⁴ 34.0	(⁴)	(⁴)
33255 59	Other alloy steel castings.....	..do....	164.1	150.4	142.6	128.9	21.5	21.5
33255 00	Other alloy castings, n.s.k.....	.....	(X)	9.8	(X)	(NA)	(X)	(NA)
33250 00	Steel castings, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	32.3	(X)	(NA)	(X)	(NA)
33250 02	Steel castings, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	.8	(X)	(NA)	(X)	(NA)
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers					
			1972		1967		Quantity ^a	Value (million dollars)
			Quantity	Value (million dollars)	Quantity ^a	Value (million dollars)		
3361- --	ALUMINUM CASTINGS, TOTAL ⁹.....	.....	(X)	1,172.3	(X)	885.4		
33611 41	Aluminum and aluminum-base alloy die castings (except aluminum cooking utensils).....	Million lb...	763.3	532.6	653.5	390.9		
33612 --	Other Aluminum and Aluminum-Base Alloy Castings (Including Cast Finished Products) ⁶.....	.....	(X)	509.7	(X)	426.0		
33612 11	Aluminum and aluminum-base alloy castings, except die castings: Sand.....	Million lb...	165.0	206.2	193.9	208.5		
33612 31	Permanent and semipermanent mold.....	..do....	304.4	229.2	252.2	169.2		
33612 51	Investment.....	..do....	(NA)	15.1	(NA)	22.1		
33612 61	Other, except die.....	..do....	11.0	27.2	(NA)	18.2		
33612 73	Nonelectric cast aluminum pressure cookers, household type, and nonelectric cast aluminum cooking utensils.....	.....	(X)	32.0	(X)	8.0		
33610 00	Aluminum and aluminum-base alloy castings, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	102.3	(X)	53.4		
33610 02	Aluminum and aluminum-base alloy castings, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	27.7	(X)	15.1		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3362- --	BRASS, BRONZE, AND COPPER CASTINGS, TOTAL.....		(X)	462.9	(X)	432.3
	Copper and Copper-Base Alloy Castings:					
	Copper and copper-base alloy castings (except bearings and bushings): ⁹					
33620 11	Sand.....	Million lb....	210.0	248.7	249.7	244.7
33620 31	Permanent and semipermanent mold.....	do.....	22.0	27.5	15.2	9.3
33620 41	Die.....	do.....	15.0	16.5	20.2	16.0
33620 51	Investment.....	1,000 lb.....	(NA)	4.4	(NA)	10.3
33620 61	Other.....	Million lb....	12.1	17.2	28.6	31.4
33620 71	Copper-base alloy bearings and bushings, nonmachined.....		(X)	65.9	(X)	46.7
33620 00	Copper and copper-base alloy castings, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	69.5	(X)	64.2
33620 02	Copper and copper-base alloy castings, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	13.2	(X)	9.7
3369- --	NONFERROUS CASTINGS, N.E.C., TOTAL ⁹		(X)	603.5	(X)	551.3
33691 --	Zinc and Zinc-Base Alloy Castings.....	Million lb....	521.5	401.6	500.8	323.3
33691 51	Die.....	do.....	507.3	386.9	473.5	312.0
33691 61	Other.....	do.....	14.2	14.7	27.3	11.3
33692 --	Magnesium and Magnesium-Base Alloy Castings.....		(X)	41.3	(X)	69.0
33692 11	Sand.....	Million lb....	(NA)	15.0	12.1	49.7
33692 31	Die.....	do.....	11.6	14.5	(¹⁰)	(¹⁰)
33692 33	Cast anodes.....	do.....	17.6	11.8	(NA)	3.9
33692 41	Other, including permanent and semipermanent mold.....	do.....			(NA)	¹⁰ 15.4
33693 --	Other Nonferrous Castings (Excluding Aluminum and Copper) ⁶		(X)	94.7	(X)	109.5
33693 71	Lead and lead-base alloy die castings.....	Million lb....	(NA)	17.5	(NA)	8.8
33693 98	Other nonferrous metal castings, including diecastings, except aluminum and aluminum-base alloy, copper and copper-base alloy, zinc and zinc-base alloy, magnesium and magnesium-base alloy, and lead and lead-base alloy castings.....		(X)	77.2	(X)	100.7
33690 00	Nonferrous castings, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	54.3	(X)	44.5
33690 02	Nonferrous castings, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	11.6	(X)	5.0

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. ^eEstimated.

¹Differs from the tonnage figures published in Current Industrial Reports, series M33A, "Iron and Steel Castings," in that no figures are included above for castings produced by captive foundry departments of plants classified in other industries. As shown in the Current Industrial Report, captive production "for own use" including both interplant transfers and castings produced and consumed by the same plant for 1972 (revised) totaled as follows: Gray iron castings, 6,314 thousand tons; ductile (nodular) iron castings, 798 thousand tons; malleable iron castings, 382 thousand tons; and steel castings, 288 thousand tons. Of this total, only the following tonnages transferred to other plants are included above: Gray iron castings, 2,887 thousand tons; ductile (nodular) iron castings, 439 thousand tons; malleable iron castings, 274 thousand tons; and steel castings, 47 thousand tons. The differences between the tonnages shown above for "shipments to other companies" and the "for sale" figures in series M33A are due to differences in classification in the census and monthly survey with regard to such products as machinery parts, etc., and fiscal-year reports in the census.

²Includes, "not specified by kind," categories listed below for which quantity data were estimated.

³The 1972 and 1967 totals for this product class are not comparable since, for 1972, ductile iron castings are classified on a separate class of products (code 33215). The amount of ductile iron castings included in the 1967 totals for this product class is unknown.

⁴Figures for transfers to other plants of the same company are included with "Shipments to other companies" to avoid disclosing operations of individual companies.

⁵Heat and/or corrosion-resistant steel castings containing 8 percent more of chromium or nickel, or both, with or without molybdenum or other elements.

⁶The individual product codes included in this class of products for 1972 differ significantly from the prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

⁷Data for 1967 include ductile iron castings.

⁸"White iron castings" were collected with "All other gray iron castings" in 1967.

⁹These data differ from the quantities shown in Current Industrial Report series M33E, "Nonferrous Castings," in that no data are included above for castings produced by captive foundry departments of plants classified in other industries. In addition, certain products are reported as castings in the monthly survey which in the census of manufacturers are classified as finished products in other industries. As shown in the Current Industrial Report, captive production ("for own use") including both interplant transfers and castings produced and consumed by the same plant for 1972 (revised), totaled as follows: Copper and copper-base alloy castings, 231 thousand tons; aluminum and aluminum-base alloy castings, 496 thousand tons; zinc and zinc-base alloy castings, 157 thousand tons; magnesium and magnesium-base alloy castings, 3 thousand tons; and lead-base alloy castings, 3 thousand tons.

¹⁰For 1967, product code 33692 31 is included with product code 33692 41, "Other, including permanent and semipermanent mold magnesium and magnesium-base alloy castings."

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
DUCTILE IRON CASTINGS (33215)			CAST IRON PRESSURE PIPE AND FITTINGS (EXCEPT DUCTILE) (33217)--Continued		
United States.....	605.4	(NA)	North Central Region.....	26.1	(NA)
Northeast Region.....	46.6	(NA)	East North Central Division.....	EE	(NA)
New England Division.....	8.6	(NA)	Ohio.....	CC	(NA)
Massachusetts.....	AA	(NA)	Illinois.....	BB	(NA)
Connecticut.....	6.5	(NA)	Michigan.....	3.3	(NA)
Middle Atlantic Division.....	38.0	(NA)	West North Central Division.....	EE	(NA)
New York.....	AA	(NA)	Iowa.....	EE	(NA)
New Jersey.....	29.9	(NA)	South Region.....	153.1	(NA)
Pennsylvania.....	CC	(NA)	South Atlantic Division.....	EE	(NA)
North Central Region.....	391.5	(NA)	Virginia.....	EE	(NA)
East North Central Division.....	368.8	(NA)	Georgia.....	BB	(NA)
Ohio.....	109.0	(NA)	East South Central Division.....	117.3	(NA)
Indiana.....	EE	(NA)	Tennessee.....	EE	(NA)
Illinois.....	44.1	(NA)	Alabama.....	GG	(NA)
Michigan.....	GG	(NA)	West South Central Division.....	EE	(NA)
Wisconsin.....	25.7	(NA)	Texas.....	EE	(NA)
West North Central Division.....	22.8	(NA)	West Region.....	23.9	(NA)
Minnesota.....	3.8	(NA)	Mountain Division.....	EE	(NA)
Iowa.....	EE	(NA)	Utah.....	EE	(NA)
Missouri.....	5.8	(NA)	Pacific Division.....	CC	(NA)
Kansas.....	BB	(NA)	Washington.....	AA	(NA)
South Region.....	138.2	(NA)	California.....	CC	(NA)
South Atlantic Division.....	48.2	(NA)	CAST IRON SOIL PIPE AND FITTINGS (33218)		
Virginia.....	FF	(NA)	United States.....	220.2	156.0
Georgia.....	CC	(NA)	Northeast Region.....	24.8	8.8
East South Central Division.....	67.7	(NA)	Middle Atlantic Division.....	24.8	8.8
Tennessee.....	2.2	(NA)	New York.....	CC	(NA)
Alabama.....	65.5	(NA)	New Jersey.....	CC	BB
West South Central Division.....	22.2	(NA)	Pennsylvania.....	14.2	BB
Oklahoma.....	BB	(NA)	North Central Region.....	CC	7.6
Texas.....	EE	(NA)	East North Central Division.....	CC	BB
West Region.....	29.3	(NA)	Ohio.....	BB	BB
Mountain Division.....	10.5	(NA)	Wisconsin.....	AA	(NA)
Colorado.....	BB	(NA)	South Region.....	171.1	123.1
Utah.....	CC	(NA)	South Atlantic Division.....	FF	FF
Pacific Division.....	18.8	(NA)	Virginia.....	CC	BB
Washington.....	2.0	(NA)	North Carolina.....	EE	EE
California.....	15.9	(NA)	East South Central Division.....	91.2	62.6
MOLDS FOR HEAVY STEEL INGOTS (33216)			Tennessee.....	EE	CC
United States.....	312.0	242.9	Alabama.....	GG	53.7
Northeast Region.....	174.4	123.4	West South Central Division.....	GG	FF
Middle Atlantic Division.....	174.4	123.4	Texas.....	GG	FF
New York.....	FF	EE	West Region.....	EE	16.5
Pennsylvania.....	GG	GG	Pacific Division.....	18.1	16.5
North Central Region.....	128.8	94.5	California.....	18.1	16.5
East North Central Division.....	GG	94.5	OTHER GRAY IRON CASTINGS (EXCEPT DUCTILE) (33219) ¹		
Ohio.....	FF	FF	United States.....	2,546.2	(NA)
Indiana.....	EE	(NA)	Northeast Region.....	346.7	(NA)
Illinois.....	46.7	42.0	New England Division.....	58.6	(NA)
Michigan.....	EE	EE	Maine.....	AA	(NA)
Wisconsin.....	BB	(NA)	Massachusetts.....	39.6	(NA)
South Region.....	BB	FF	Rhode Island.....	2.8	(NA)
South Atlantic Division.....	BB	AA	Connecticut.....	EE	(NA)
South Carolina.....	AA	(NA)	Middle Atlantic Division.....	285.8	(NA)
West South Central Division.....	AA	EE	New York.....	141.6	(NA)
Texas.....	AA	EE	New Jersey.....	21.9	(NA)
West Region.....	CC	BB	Pennsylvania.....	122.3	(NA)
Mountain Division.....	BB	BB	North Central Region.....	1,834.3	(NA)
Colorado.....	BB	BB	East North Central Division.....	1,744.7	(NA)
Pacific Division.....	AA	AA	Ohio.....	483.0	(NA)
California.....	AA	(NA)	Indiana.....	221.9	(NA)
CAST IRON PRESSURE PIPE AND FITTINGS (EXCEPT DUCTILE) (33217) ¹			Illinois.....	202.9	(NA)
United States.....	245.4	(NA)	Michigan.....	674.8	(NA)
Northeast Region.....	42.3	(NA)	Wisconsin.....	162.1	(NA)
New England.....	EE	(NA)	West North Central Division.....	89.6	(NA)
Rhode Island.....	EE	(NA)	Minnesota.....	24.2	(NA)
Middle Atlantic Division.....	FF	(NA)	Iowa.....	27.9	(NA)
New Jersey.....	30.0	(NA)	Missouri.....	21.9	(NA)
			Nebraska.....	BB	(NA)
			Kansas.....	EE	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER GRAY IRON CASTINGS (EXCEPT DUCTILE) (33219)--Continued			PEARLITIC MALLEABLE CASTINGS (33222)--Continued		
South Region.....	295.2	(NA)	South Region.....	6.3	(NA)
South Atlantic Division.....	110.6	(NA)	South Atlantic Division.....	BB	(NA)
Maryland.....	CC	(NA)	Georgia.....		
Virginia.....	63.4	(NA)	West South Central Division.....	BB	(NA)
West Virginia.....	10.8	(NA)	Texas.....	BB	(NA)
North Carolina.....	CC	(NA)			
South Carolina.....	7.7	(NA)	CARBON STEEL CASTINGS (33252)		
Georgia.....	6.5	(NA)	United States.....	543.7	619.0
Florida.....	BB	(NA)	Northeast Region.....	127.9	179.3
East South Central Division.....	139.0	(NA)	New England Division.....	3.1	8.8
Kentucky.....	FF	(NA)	Connecticut.....	BB	BB
Tennessee.....	75.8	(NA)	Middle Atlantic Division.....	124.7	170.6
Alabama.....	32.6	(NA)	New York.....	FF	42.1
Mississippi.....	BB	(NA)	Pennsylvania.....	85.7	128.3
West South Central Division.....	45.6	(NA)			
Arkansas.....	CC	(NA)	North Central Region.....	295.3	345.1
Louisiana.....	AA	(NA)	East North Central Division.....	245.0	279.3
Oklahoma.....	9.1	(NA)	Ohio.....	74.4	92.2
Texas.....	27.5	(NA)	Indiana.....	32.4	33.9
West Region.....	70.2	(NA)	Illinois.....	49.7	89.1
Mountain Division.....	13.0	(NA)	Michigan.....	31.2	14.9
Colorado.....	9.1	(NA)	Wisconsin.....	57.3	49.2
Arizona.....	AA	(NA)	West North Central Division.....	50.4	65.7
Utah.....	1.7	(NA)	Minnesota.....	CC	BB
Pacific Division.....	57.2	(NA)	Iowa.....	13.9	EE
Washington.....	6.5	(NA)	Missouri.....	17.7	28.6
Oregon.....	4.0	(NA)	Kansas.....	EE	EE
California.....	46.7	(NA)			
STANDARD MALLEABLE CASTINGS (33221) ²			South Region.....	74.8	57.6
United States.....	345.8	(NA)	South Atlantic Division.....	15.2	13.5
Northeast Region.....	71.4	(NA)	Delaware.....	AA	CC
New England Division.....	13.8	(NA)	Virginia.....	BB	AA
New Hampshire.....	AA	(NA)	West Virginia.....	CC	AA
Massachusetts.....	BB	(NA)	Georgia.....	3.2	AA
Rhode Island.....	BB	(NA)	Florida.....	BB	BB
Connecticut.....	CC	(NA)	East South Central Division.....	35.6	21.7
Middle Atlantic Division.....	GG	(NA)	Tennessee.....	BB	BB
New York.....	13.9	(NA)	Alabama.....	FF	EE
Pennsylvania.....	43.1	(NA)	West South Central Division.....	24.0	22.4
North Central Region.....	252.5	(NA)	Arkansas.....	BB	AA
East North Central Division.....	GG	(NA)	Louisiana.....	CC	2.9
Ohio.....	63.0	(NA)	Oklahoma.....	CC	BB
Indiana.....	EE	(NA)	Texas.....	9.9	13.7
Illinois.....	27.4	(NA)	West Region.....	45.7	37.0
Michigan.....	102.6	(NA)	Mountain Division.....	EE	(NA)
Wisconsin.....	33.1	(NA)	Colorado.....	AA	(NA)
West North Central Division.....	CC	(NA)	Arizona.....	CC	(NA)
Minnesota.....	BB	(NA)	Pacific Division.....	FF	36.2
Iowa.....	BB	(NA)	Washington.....	10.5	3.7
South Region.....	FF	(NA)	Oregon.....	BB	9.9
South Atlantic Division.....	BB	(NA)	California.....	20.7	22.5
West Virginia.....	BB	(NA)			
Georgia.....	AA	(NA)	HIGH ALLOY STEEL CASTINGS (EXCEPT INVESTMENT) (33254)		
East South Central Division.....	BB	(NA)	United States.....	127.7	(NA)
Tennessee.....	BB	(NA)	Northeast Region.....	45.1	(NA)
West South Central Division.....	EE	(NA)	New England Division.....	BB	(NA)
Texas.....	EE	(NA)	Massachusetts.....	AA	(NA)
PEARLITIC MALLEABLE CASTINGS (33222) ²			Connecticut.....	AA	(NA)
United States.....	129.3	(NA)	Middle Atlantic Division.....	FF	(NA)
Northeast Region.....	5.3	(NA)	New Jersey.....	BB	(NA)
Middle Atlantic Division.....	4.9	(NA)	Pennsylvania.....	37.8	(NA)
Pennsylvania.....	4.5	(NA)	North Central Region.....	52.7	(NA)
North Central Region.....	117.7	(NA)	East North Central Division.....	FF	(NA)
East North Central Division.....	117.4	(NA)	Ohio.....	30.6	(NA)
Ohio.....	CC	(NA)	Indiana.....	1.1	(NA)
Indiana.....	AA	(NA)	Illinois.....	CC	(NA)
Illinois.....	FF	(NA)	Michigan.....	BB	(NA)
Michigan.....	GG	(NA)	Wisconsin.....	7.1	(NA)
Wisconsin.....	BB	(NA)	West North Central Division.....	BB	(NA)
			Missouri.....	BB	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
HIGH ALLOY STEEL CASTINGS (EXCEPT INVESTMENT) (33254)—Continued			ALUMINUM AND ALUMINUM-BASE ALLOY DIE CASTINGS (33611)—Continued		
South Region.....	7.2	(NA)	North Central Region—Continued		
East South Central Division.....	BB	(NA)	West North Central Division.....	25.8	(NA)
Alabama.....	BB	(NA)	Minnesota.....	14.6	(NA)
West South Central Division.....	BB	(NA)	Iowa.....	CC	(NA)
Oklahoma.....	AA	(NA)	Missouri.....	CC	(NA)
West Region.....	22.8	(NA)	South Region.....	82.7	(NA)
Pacific Division.....	21.9	(NA)	South Atlantic Division.....	9.4	(NA)
Washington.....	BB	(NA)	North Carolina.....	BB	(NA)
Oregon.....	CC	(NA)	South Carolina.....	BB	(NA)
California.....	12.7	(NA)	Florida.....	AA	(NA)
			East South Central Division.....	66.2	(NA)
OTHER ALLOY STEEL CASTINGS (33255)³			Kentucky.....	EE	(NA)
United States.....	346.5	(NA)	Tennessee.....	AA	(NA)
Northeast Region.....	91.7	(NA)	Alabama.....	FF	(NA)
New England Division.....	3.5	(NA)	Mississippi.....	AA	(NA)
Connecticut.....	BB	(NA)	West South Central Division.....	7.0	(NA)
Middle Atlantic Division.....	88.2	(NA)	Arkansas.....	CC	(NA)
New York.....	FF	(NA)	Texas.....	BB	(NA)
New Jersey.....	CC	(NA)	West Region.....	35.3	(NA)
Pennsylvania.....	51.1	(NA)	Pacific Division.....	FF	(NA)
North Central Region.....	165.5	(NA)	Oregon.....	CC	(NA)
East North Central Division.....	135.4	(NA)	California.....	29.6	(NA)
Ohio.....	27.0	(NA)			
Indiana.....	EE	(NA)	OTHER ALUMINUM AND ALUMINUM-BASE ALLOY CASTINGS (INCLUDING AND FINISHED PRODUCTS) (33612)³		
Illinois.....	47.7	(NA)	United States.....	509.7	(NA)
Michigan.....	BB	(NA)	Northeast Region.....	91.9	(NA)
Wisconsin.....	43.8	(NA)	New England Division.....	19.5	(NA)
West North Central Division.....	30.1	(NA)	New Hampshire.....	4.8	(NA)
Minnesota.....	13.9	(NA)	Massachusetts.....	6.6	(NA)
Iowa.....	CC	(NA)	Connecticut.....	7.6	(NA)
Missouri.....	CC	(NA)	Middle Atlantic Division.....	72.4	(NA)
Kansas.....	AA	(NA)	New York.....	39.0	(NA)
South Region.....	39.0	(NA)	New Jersey.....	10.4	(NA)
South Atlantic Division.....	EE	(NA)	Pennsylvania.....	23.0	(NA)
Delaware.....	CC	(NA)	North Central Region.....	311.2	(NA)
West Virginia.....	BB	(NA)	East North Central Division.....	257.4	(NA)
East South Central Division.....	BB	(NA)	Ohio.....	113.2	(NA)
Tennessee.....	BB	(NA)	Indiana.....	35.5	(NA)
Alabama.....	AA	(NA)	Illinois.....	28.4	(NA)
West South Central Division.....	25.2	(NA)	Michigan.....	40.6	(NA)
Louisiana.....	EE	(NA)	Wisconsin.....	40.3	(NA)
Oklahoma.....	AA	(NA)	West North Central Division.....	53.8	(NA)
Texas.....	10.2	(NA)	Minnesota.....	24.0	(NA)
West Region.....	50.3	(NA)	Iowa.....	6.0	(NA)
Mountain Division.....	6.7	(NA)	Missouri.....	20.6	(NA)
Colorado.....	BB	(NA)	Kansas.....	BB	(NA)
Arizona.....	BB	(NA)	South Region.....	40.5	(NA)
Pacific Division.....	43.6	(NA)	South Atlantic Division.....	6.9	(NA)
Washington.....	CC	(NA)	North Carolina.....	1.7	(NA)
Oregon.....	FF	(NA)	Florida.....	2.6	(NA)
California.....	12.0	(NA)	East South Central Division.....	22.7	(NA)
			Tennessee.....	AA	(NA)
ALUMINUM AND ALUMINUM-BASE ALLOY DIE CASTINGS (33611)			Alabama.....	FF	(NA)
United States.....	532.6	(NA)	West South Central Division.....	10.9	(NA)
Northeast Region.....	111.3	(NA)	Arkansas.....	BB	(NA)
New England Division.....	17.5	(NA)	Oklahoma.....	BB	(NA)
Massachusetts.....	BB	(NA)	Texas.....	5.1	(NA)
Connecticut.....	EE	(NA)	West Region.....	66.2	(NA)
Middle Atlantic Division.....	93.8	(NA)	Mountain Division.....	6.4	(NA)
New York.....	44.5	(NA)	Colorado.....	5.2	(NA)
New Jersey.....	7.4	(NA)	Pacific Division.....	59.8	(NA)
Pennsylvania.....	41.9	(NA)	Washington.....	3.7	(NA)
North Central Region.....	303.3	(NA)	Oregon.....	7.1	(NA)
East North Central Division.....	277.5	(NA)	California.....	49.0	(NA)
Ohio.....	92.3	(NA)			
Indiana.....	FF	(NA)	ZINC AND ZINC-BASE ALLOY CASTINGS (33691)		
Illinois.....	44.4	(NA)	United States.....	401.6	323.3
Michigan.....	FF	(NA)	Northeast Region.....	69.5	45.5
Wisconsin.....	52.4	(NA)	New England Division.....	13.6	10.7
			Massachusetts.....	AA	(¹)
			Rhode Island.....	BB	1.2
			Connecticut.....	9.3	8.7

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ZINC AND ZINC-BASE ALLOY CASTINGS (33691)--Continued			MAGNESIUM AND MAGNESIUM-BASE ALLOY CASTINGS (33692)--Continued		
Northeast Region--Continued			North Central Region.....	14.1	(NA)
Middle Atlantic Division.....	55.9	34.8	East North Central Division.....	CC	(NA)
New York.....	34.5	16.2	Ohio.....	AA	(NA)
New Jersey.....	8.1	6.0	Illinois.....	1.8	(NA)
Pennsylvania.....	13.3	12.7	Michigan.....	4.8	(NA)
			Wisconsin.....	AA	(NA)
North Central Region.....	290.3	255.5	West North Central Division.....	BB	(NA)
East North Central Division.....	269.3	236.7	Iowa.....	BB	(NA)
Ohio.....	59.1	52.4	Missouri.....	AA	(NA)
Indiana.....	FF	EE	South Region.....	10.4	(NA)
Illinois.....	54.7	50.4	East South Central Division.....	BB	(NA)
Michigan.....	118.0	108.7	Alabama.....	BB	(NA)
Wisconsin.....	EE	CC	West South Central Division.....	CC	(NA)
West North Central Division.....	20.9	18.8	Oklahoma.....	BB	(NA)
Minnesota.....	CC	5.9	Texas.....	BB	(NA)
Iowa.....	6.5	BB	West Region.....	CC	(NA)
Missouri.....	6.7	7.0	Pacific Division.....	CC	(NA)
Kansas.....	BB	BB	California.....	CC	(NA)
South Region.....	15.7	7.1			
South Atlantic Division.....	1.5	(1)	OTHER NONFERROUS CASTINGS (EXCLUDING ZINC AND MAGNESIUM) (33693) ³		
Florida.....	AA	(1)	United States.....	94.7	(NA)
East South Central Division.....	12.8	3.0	Northeast Region.....	8.6	(NA)
Kentucky.....	BB	AA	Middle Atlantic Division.....	7.6	(NA)
Tennessee.....	BB	(1)	New York.....	4.3	(NA)
Mississippi.....	CC	(1)	New Jersey.....	BB	(NA)
West South Central Division.....	1.4	BB	Pennsylvania.....	AA	(NA)
West Region.....	26.1	15.2	North Central Region.....	68.4	(NA)
Pacific Division.....	FF	EE	East North Central Division.....	66.5	(NA)
Washington.....	BB	(1)	Ohio.....	FF	(NA)
Oregon.....	AA	(1)	Indiana.....	EE	(NA)
California.....	21.7	13.6	Illinois.....	1.9	(NA)
			West North Central Division.....	1.9	(NA)
MAGNESIUM AND MAGNESIUM-BASE ALLOY CASTINGS (33692)			Missouri.....	AA	(NA)
United States.....	41.3	(NA)	South Region.....	5.6	(NA)
Northeast Region.....	EE	(NA)	East South Central Division.....	CC	(NA)
Middle Atlantic Division.....	EE	(NA)	Tennessee.....	CC	(NA)
New York.....	CC	(NA)	West Region.....	12.2	(NA)
			Pacific Division.....	EE	(NA)
			California.....	EE	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to 49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available.

¹The 1972 and 1967 totals for this product class are not comparable since ductile iron castings have shifted out of this class of products in 1972. The amount of ductile iron castings included in the 1967 totals for this product class is unknown.

²Not a separate product class in 1967.

³The individual product codes included in this class of products for 1972 differ significantly from the prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the United States level.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3321	Gray iron castings.....	4,033.8	3,418.8	3,110.2	3,236.6	2,978.7	2,740.4	2,046.3	1,527.9
33215	Ductile iron castings.....	605.4							
33217	Cast iron pressure pipe and fittings (except ductile).....	² 245.4	2,949.8	2,670.6	2,714.2	2,479.0	2,224.0	1,663.5	1,191.2
33219	Other gray iron castings (except ductile).....	² 2,546.2							
33216	Molds for heavy steel ingots.....	312.0	239.6	251.3	270.3	253.0	242.9	187.8	147.7
33218	Cast iron soil pipe and fittings.....	220.2	204.9	167.4	181.4	175.2	156.0	152.1	119.8
33210	Gray iron castings, n.s.k.....	104.6	24.5	(20.9)	70.7	71.5	117.5	43.0	69.2
3322	Malleable iron castings.....	484.8	494.4	445.9	487.4	443.2	417.2	313.6	203.3
33221	Standard malleable castings.....	³ 345.8							
33222	Pearlitic malleable castings.....	³ 129.3	494.4	445.9	487.4	443.2	417.2	313.6	203.3
33220	Malleable Iron castings, n.s.k.....	9.7							
33240	Steel investment castings.....	237.7	230.5	223.7	198.6	175.4	167.6	(NA)	(NA)
3325	Steel castings, n.e.c.....	1,050.3	1,006.3	1,046.9	1,055.8	971.7	1,042.1	(NA)	(NA)
33252	Carbon steel castings.....	543.7	542.5	574.2	608.2	561.2	619.0	(NA)	(NA)
33254	High alloy steel castings (except investment).....	127.7	433.0	461.9	410.8	371.4	390.0	(NA)	(NA)
33255	Other alloy steel castings.....	⁴ 346.5							
33250	Steel castings, n.e.c., n.s.k.....	32.4	30.8	(10.8)	36.8	39.1	33.1	(NA)	(NA)
3361	Aluminum castings.....	1,172.3	962.8	968.1	1,085.8	970.2	885.4	607.0	399.6
33611	Aluminum and aluminum-base alloy castings.....	532.6							
33612	Other aluminum and aluminum-base alloy castings.....	⁴ 509.7	962.8	968.1	1,085.8	970.2	885.4	607.0	399.6
33610	Aluminum castings, n.s.k.....	130.0							
33620	Brass, bronze, and copper castings.....	462.9	404.7	479.4	445.9	403.7	432.3	299.8	222.8
3369	Nonferrous castings, n.e.c.....	603.5	507.2	519.2	600.5	601.8	551.3	306.1	223.2
33691	Zinc and zinc-base alloy castings.....	401.6	337.0	334.0	350.7	360.6	323.3		
33692	Magnesium and magnesium-base alloy castings.....	41.3	154.6	160.8	205.6	204.7	178.5	306.1	223.2
33693	Other nonferrous castings (excluding zinc and magnesium)...	⁴ 94.7							
33690	Nonferrous castings, n.e.c., n.s.k.....	65.9	(15.6)	(24.4)	44.2	36.5	49.5		

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent either other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²The 1972 and 1967 totals for this product class are not comparable since, for 1972, ductile iron castings are classified in a separate class of products (code 33215). The amount of ductile iron castings included in the 1967 totals for this product class is unknown.

³Not a separate product class in 1972 and prior years.

⁴The individual product codes included in this class of products for 1972 differ significantly from the prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3321.--GRAY IRON FOUNDRIES					
	Materials, containers, and supplies, total.....		(X)	1,349.6	(X)	896.8
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	3,327.4	243.3	3,350.1	193.4
	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333404	Aluminum, unalloyed.....	...do.....	1.4	.6	(D)	(D)
333405	Aluminum-base alloys.....	...do.....	4.8	2.3	2.0	1.0
333121	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	...do.....	1.2	1.3	(D)	(D)
334123	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	...do.....	6.5	7.0	3.9	3.9
333348	Zinc and zinc-base alloys.....	...do.....	.2	.1	(¹)	(¹)
333973	Magnesium and magnesium-base alloys.....	...do.....	39.3	16.2	11.1	5.8
331312	Ferromanganese.....	...do.....	41.4	7.2	13.3	2.0
331320	Ferrochromium.....	...do.....	11.7	4.1	271.5	44.0
331309	Other ferroalloys, including silvery iron.....	...do.....	555.1	72.8		
	Scrap (purchased only):					
999811	Iron and steel.....	...do.....	8,414.7	328.9	6,322.3	209.3
999808	Aluminum and aluminum-base alloy.....	...do.....	1.7	.6	(D)	(D)
999812	Copper and copper-base alloy.....	...do.....	.9	.9	2.2	1.6
144603	Sand.....	...do.....	5,554.4	40.2	3,477.9	22.5
325501	Clay refractories.....	...do.....	331.9	11.1	(NA)	6.6
329701	Nonclay refractories.....	...do.....	74.6	9.7	(NA)	4.2
970099	All other materials and components, parts, containers, and supplies consumed (excluding coal and coke).....	...do.....	(X)	542.5	(X)	² 340.9
976000	Materials, containers, and supplies, n.s.k. ¹.....	...do.....	(X)	60.8	(X)	66.8

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 3322.--MALLEABLE IRON FOUNDRIES						
	Materials, containers, and supplies, total.....		(X)	² 135.7	(X)	117.5
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	70.8	5.6	135.5	8.1
333404	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333405	Aluminum, unalloyed.....	..do.....	.5	.3	2.0	1.0
333121	Aluminum-base alloys.....	..do.....				
334123	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	..do.....				
	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	..do.....	.3	.4	(D)	(D)
333348	Zinc and zinc-base alloys.....	..do.....				
331312	Ferromanganese.....	..do.....				
331320	Ferrochromium.....	..do.....	(D)	(D)	.8	.2
331309	Other ferroalloys, including silvery iron.....	..do.....	4.0	.8	7.4	1.3
			(Z)	(Z)	63.0	7.6
			45.4	7.9		
Scrap (purchased only):						
999811	Iron and steel.....	..do.....	917.8	35.0	783.4	24.5
999808	Aluminum and aluminum-base alloy.....	..do.....	(D)	(D)	(D)	(D)
999812	Copper and copper-base alloy.....	..do.....	(D)	(D)	(D)	(D)
333973	Magnesium and magnesium-base alloys.....	..do.....	(D)	(D)	(D)	(D)
144603	Sand.....	..do.....	483.4	4.5	429.7	2.7
325501	Clay refractories.....	..do.....	40.2	3.1	34.3	1.8
329701	Nonclay refractories.....	..do.....	9.1	1.5	(NA)	.7
970099	All other materials and components, parts, containers, and supplies consumed (excluding coal and coke).....		(X)	73.1	(X)	² 60.4
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	2.9	(X)	9.2
INDUSTRY 3324.--STEEL INVESTMENT FOUNDRIES						
	Materials, containers, and supplies, total.....		(X)	74.5	(X)	(NA)
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	(D)	(D)	(NA)	(NA)
333404	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333405	Aluminum, unalloyed.....	..do.....	(D)	(D)	(NA)	(NA)
333121	Aluminum-base alloys.....	..do.....	.4	.3	(NA)	(NA)
334123	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	..do.....	(D)	(D)	(NA)	(NA)
	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	..do.....	.3	.4	(NA)	(NA)
333973	Magnesium and magnesium-base alloy.....	..do.....	(D)	(D)	(NA)	(NA)
331312	Ferromanganese.....	..do.....	.2	.1	(NA)	(NA)
331320	Ferrochromium.....	..do.....	.5	.2	(NA)	(NA)
331309	Other ferroalloys, including silvery iron.....	..do.....	17.1	14.4	(NA)	(NA)
Scrap (purchased only):						
999811	Iron and steel.....	..do.....	136.0	6.3	(NA)	(NA)
999808	Aluminum and aluminum-base alloy.....	..do.....	(D)	(D)	(NA)	(NA)
999812	Copper and copper-base alloy.....	..do.....	(D)	(D)	(NA)	(NA)
144603	Sand.....	..do.....	15.9	.9	(NA)	(NA)
325501	Clay refractories.....	..do.....	3.6	.3	(NA)	(NA)
329701	Nonclay refractories.....	..do.....	2.2	.5	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed (excluding coal and coke).....		(X)	38.8	(X)	(NA)
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	11.5	(X)	(NA)
INDUSTRY 3325.--STEEL FOUNDRIES, N.E.C.						
	Materials, containers, and supplies, total.....		(X)	296.7	(X)	(NA)
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	37.2	2.9	(NA)	(NA)
333404	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333405	Aluminum, unalloyed.....	..do.....	1.6	.8	(NA)	(NA)
333121	Aluminum-base alloy.....	..do.....	3.3	1.6	(NA)	(NA)
334123	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	..do.....	.8	.8	(NA)	(NA)
	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	..do.....	2.0	2.1	(NA)	(NA)
333973	Magnesium and magnesium-base alloy.....	..do.....	.9	.4	(NA)	(NA)
331312	Ferromanganese.....	..do.....	20.4	4.2	(NA)	(NA)
331320	Ferrochromium.....	..do.....	16.2	6.6	(NA)	(NA)
331309	Other ferroalloys, including silvery iron.....	..do.....	31.3	12.0	(NA)	(NA)
Scrap (purchased only):						
999811	Iron and steel.....	..do.....	1,299.3	51.3	(NA)	(NA)
999808	Aluminum and aluminum-base alloy.....	..do.....	.2	.1	(NA)	(NA)
999812	Copper and copper-base alloy.....	..do.....	.3	.2	(NA)	(NA)
144603	Sand.....	..do.....	1,191.9	14.0	(NA)	(NA)
325501	Clay refractories.....	..do.....	87.2	5.4	(NA)	(NA)
329701	Nonclay refractories.....	..do.....	27.8	3.5	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed (excluding coal and coke).....		(X)	163.0	(X)	(NA)
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	27.8	(X)	(NA)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
1967 INDUSTRY 3323.--STEEL FOUNDRIES, N.E.C. (1972 Industries 3324 and 3325) ³						
	Materials, containers, and supplies, total.....		(X)	371.2	(X)	344.4
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	(D)	(D)	129.9	7.9
	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333404	Aluminum, unalloyed.....	...do.....	(D)	(D)	6.1	2.7
333405	Aluminum-base alloy.....	...do.....	3.7	1.9	(⁴)	(⁴)
333121	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	...do.....	(D)	(D)	(⁴)	(⁴)
334123	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	...do.....	2.3	2.5	(⁴)	(⁴)
333973	Magnesium and magnesium-base alloy.....	...do.....	(D)	(D)	(⁴)	(⁴)
331312	Ferromanganese.....	...do.....	20.6	4.3	27.4	4.8
331320	Ferrochromium.....	...do.....	16.7	6.8	(⁴)	(⁴)
331309	Other ferroalloys, including silvery iron.....	...do.....	33.3	26.4	58.0	19.9
	Scrap (purchased only):					
999811	Iron and steel.....	...do.....	1,435.3	57.6	1,707.0	55.3
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(⁴)	(⁴)
999812	Copper and copper-base alloy.....	...do.....	(D)	(D)	(⁴)	(⁴)
144603	Sand.....	...do.....	1,207.8	14.9	1,614.2	14.7
325501	Clay refractories.....	...do.....	90.8	5.7	(NA)	3.7
329701	Nonclay refractories.....	...do.....	30.0	4.0	(NA)	2.9
970099	All other materials and components, parts, containers, and supplies consumed (excluding coal and coke).....		(X)	201.8	(X)	⁴ 218.1
976000	Materials, containers, and supplies, n.s.k. ¹		(X)	39.3	(X)	14.4
INDUSTRY 3361.--ALUMINUM FOUNDRIES						
	Materials, parts, containers, and supplies, total.....		(X)	483.7	(X)	347.2
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	13.2	1.0	(NA)	(D)
	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333404	Aluminum, unalloyed.....	...do.....	56.5	31.4	28.2	14.3
333405	Aluminum-base alloys.....	...do.....	494.2	236.6	378.4	176.4
333121	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	...do.....	1.6	1.2	(D)	(D)
334123	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	...do.....	8.9	9.2	9.6	8.5
333348	Zinc and zinc-base alloys.....	...do.....	56.2	23.0	59.5	19.0
333973	Magnesium and magnesium-base alloys.....	...do.....	3.5	2.4	3.9	2.5
331320	Ferrochromium.....	...do.....	(NA)	1.3	(NA)	.5
331312	Ferromanganese.....	...do.....				
331309	Other ferroalloys, including silvery iron.....	...do.....				
	Scrap (purchased scrap only):					
999811	Iron and steel.....	...do.....	(NA)	.1	2.4	.2
999808	Aluminum and aluminum-base alloy.....	...do.....	73.9	27.2	36.2	9.7
999812	Copper and copper-base alloy.....	...do.....	1.7	1.1	(NA)	.9
144603	Sand.....	...do.....	120.0	2.7	(NA)	3.4
325501	Clay refractories.....	...do.....	1.0	.2	(NA)	.2
329701	Nonclay refractories.....	...do.....	1.9	.3	(NA)	.2
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	75.2	(X)	² 79.5
976000	Materials, parts, components, and supplies, n.s.k. ¹		(X)	70.8	(X)	31.9
INDUSTRY 3362.--BRASS, BRONZE, AND COPPER FOUNDRIES						
	Materials, parts, containers, and supplies, total.....		(X)	² 206.0	(X)	196.6
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	(D)	(D)	7.2	.5
	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333404	Aluminum, unalloyed.....	...do.....	3.0	1.6	8.0	4.3
333405	Aluminum-base alloys.....	...do.....	13.7	7.1	23.8	12.0
333121	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	...do.....	17.8	19.8	16.6	13.0
334123	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	...do.....	75.2	75.9	72.8	68.0
333348	Zinc and zinc-base alloys.....	...do.....	2.0	.8	1.8	.5
333973	Magnesium and magnesium-base alloys.....	...do.....	.3	.3	.4	.2
331320	Ferrochromium.....	...do.....	-	-	(D)	(D)
331312	Ferromanganese.....	...do.....	-	-		
331309	Other ferroalloys, including silvery iron.....	...do.....	(D)	(D)		
	Scrap:					
999811	Iron and steel purchased scrap.....	...do.....	(D)	(D)	26.2	1.0
	Nonferrous metal scrap:					
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	1.1	.5
999812	Copper and copper-base alloy.....	...do.....	49.7	32.2	52.9	36.5
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	32.9	(X)	² 38.3
976000	Materials, parts, containers, and supplies, n.s.k. ¹		(X)	26.9	(X)	21.8

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3369.--NONFERROUS FOUNDRIES, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	² 224.0	(X)	181.2
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	(D)	(D)	(D)	(D)
	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.):					
333404	Aluminum, unalloyed.....	...do.....	(NA)	.8	10.1	6.6
333405	Aluminum-base alloy.....	...do.....	20.3	9.5	21.9	10.2
333121	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	...do.....	.2	.3	.3	.3
334123	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	...do.....	(NA)	1.5	1.7	1.7
333348	Zinc and Zinc-base alloys.....	...do.....	197.2	81.5	178.3	57.4
333973	Magnesium and magnesium-base alloys.....	...do.....	3.2	3.8	5.3	4.7
331320	Ferrochromium.....	...do.....	}	(NA)	18.5	3.6
331312	Ferromanganese.....	...do.....				
331309	Other ferroalloys, including silvery iron.....	...do.....				
	Scrap (purchased scrap only):					
999811	Iron and steel.....	...do.....	(D)	.2	(NA)	.2
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)
999812	Copper and copper-base alloy.....	...do.....	(D)	.2	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	83.5	(X)	² 61.9
976000	Materials, parts, containers, and supplies, n.s.k. ¹		(X)	42.9	(X)	34.6

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.²Includes cost for materials indicated by the symbol (D).³The figures for 1972 and 1967 are not strictly comparable (see footnote 2, table 1A).⁴Included in code 970099, "All other materials and components, parts, containers, and supplies consumed (excluding coal and coke," for 1967).

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3321.--GRAY IRON FOUNDRIES					
	Purchased fuels and electric energy.....		(X)	135.0	(X)	102.7
	Purchased fuels, total.....		(X)	79.4	(X)	70.7
121005	Coal.....	1,000 s. tons.....	151.4	1.9	153.4	1.6
331212	Coke.....	...do.....	1,250.1	48.3	1,175.6	42.3
	Fuel oil, total.....	1,000 bbl (42 gal)	383.8	1.6	411.4	1.7
291141	Distillate.....	...do.....	317.8	1.4	346.7	1.5
291151	Residual.....	...do.....	66.0	.3	64.7	.2
131300	Natural gas.....	Billion ft ³	32.7	19.1	25.8	13.9
960011	Other fuels.....	.....	(X)	3.9	(X)	2.0
975000	Fuels, n.s.k.....	.....	(X)	4.6	(X)	9.2
960012	Purchased electric energy.....	Million kWh.....	4,534.1	55.6	2,805.5	32.0
	Quantity of electric energy generated less quantity sold....	...do.....	(D)	-	151.3	-
	Total energy used for heat and power.....	Bil. kWh equiv....	29.3	-	27.9	-
	INDUSTRY 3322.--MALLEABLE IRON FOUNDRIES					
	Purchased fuels and electric energy.....		(X)	24.9	(X)	20.4
	Purchased fuels, total.....		(X)	12.6	(X)	12.7
121005	Coal.....	1,000 s. tons.....	131.6	1.9	167.8	2.1
331212	Coke.....	...do.....	126.7	4.5	137.3	4.8
	Fuel oil, total.....	1,000 bbl (42 gal)	108.3	.5	167.2	.7
291141	Distillate.....	...do.....	56.4	.3	133.4	.6
291151	Residual.....	...do.....	51.9	.2	33.8	.1
131300	Natural gas.....	Billion ft ³	8.2	4.7	8.8	4.4
960011	Other fuels.....	.....	(X)	.3	(X)	.2
975000	Fuels, n.s.k.....	.....	(X)	.7	(X)	.5
960012	Purchased electric energy.....	Million kWh.....	1,021.8	12.3	779.1	7.7
	Quantity of electric energy generated less quantity sold....	...do.....	-	-	19.9	-
	Total energy used for heat and power.....	Bil. kWh equiv....	6.1	-	6.5	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3324.--STEEL INVESTMENT FOUNDRIES INDUSTRY 3325.--STEEL FOUNDRIES, N.E.C.					
	Purchased fuels and electric energy.....		(X)	47.4	(X)	43.0
	Purchased fuels, total.....		(X)	17.6	(X)	16.8
121005	Coal.....	1,000 s. tons.....	82.6	1.0	98.4	1.0
331212	Coke.....	..do.....	6.4	.3	13.6	.5
	Fuel oil, total.....	1,000 bbl (42 gal)	371.5	1.7	713.1	2.7
291141	Distillate.....	..do.....	173.2	.8	431.4	1.7
291151	Residual.....	..do.....	198.4	.9	281.7	1.0
131300	Natural gas.....	Billion ft ³	18.6	11.3	20.4	10.8
960011	Other fuels.....		(X)	1.1	(X)	1.0
975000	Fuels, n.s.k.....		(X)	2.2	(X)	.8
960012	Purchased electric energy.....	Million kWh.....	2,316.2	29.8	2,232.8	26.2
	Quantity of electric energy generated less quantity sold....	..do.....	27.5	-	7.2	-
	Total energy used for heat and power.....	Bil. kWh equiv....	10.8	-	11.4	(NA)
	INDUSTRY 3361.--ALUMINUM FOUNDRIES					
	Purchased fuels and electric energy.....		(X)	26.2	(X)	19.8
	Purchased fuels, total.....		(X)	12.4	(X)	11.0
121005	Coal.....	1,000 s. tons.....	7.0	(Z)	16.6	.1
331212	Coke.....	..do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	90.2	.4	237.8	1.0
291141	Distillate.....	..do.....	50.4	.2	200.2	.9
291151	Residual.....	..do.....	39.8	.1	37.6	.1
131300	Natural gas.....	Billion ft ³	15.0	9.2	14.0	8.1
960011	Other fuels.....		(X)	.3	(X)	.2
975000	Fuels, n.s.k.....		(X)	2.5	(X)	1.7
960012	Purchased electric energy.....	Million kWh.....	1,008.6	13.8	747.1	8.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	7.4	-	6.6	-
	INDUSTRY 3362.--BRASS, BRONZE, AND COPPER FOUNDRIES					
	Purchased fuels and electric energy.....		(X)	4.6	(X)	7.6
	Purchased fuels, total.....		(X)	3.7	(X)	3.8
121005	Coal.....	1,000 s. tons.....	3.8	(Z)	-	-
331212	Coke.....	..do.....	(S)	.2	3.0	.1
	Fuel oil, total.....	1,000 bbl (42 gal)	96.7	.5	152.0	.8
291141	Distillate.....	..do.....	61.9	.4	137.8	.7
291151	Residual.....	..do.....	34.8	.2	14.2	.1
131300	Natural gas.....	Billion ft ³	2.8	1.8	3.7	2.3
960011	Other fuels.....		(X)	.1	(X)	.1
975000	Fuels, n.s.k.....		(X)	1.1	(X)	.5
960012	Purchased electric energy.....	Million kWh.....	293.6	4.2	252.5	3.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(Z)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.1	-	2.1	-
	INDUSTRY 3369.--NONFERROUS FOUNDRIES, N.E.C.					
	Purchased fuels and electric energy.....		(X)	9.0	(X)	(NA)
	Purchased fuels, total.....		(X)	4.6	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	.1	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	34.3	.2	(NA)	(NA)
291141	Distillate.....	..do.....	29.8	.2	(NA)	(NA)
291151	Residual.....	..do.....	4.5	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	4.6	2.9	(NA)	(NA)
960011	Other fuels.....		(X)	.6	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.9	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	357.0	4.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.5	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the data did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

Smelting and Refining of Nonferrous Metals and Alloys

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EXPLANATORY TEXT

SMELTING AND REFINING OF NONFERROUS METALS AND ALLOYS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3331—Primary Smelting and Refining of Copper*
- 3332—Primary Smelting and Refining of Lead*
- 3333—Primary Smelting and Refining of Zinc*
- 3334—Primary Production of Aluminum*
- 3339—Primary Smelting and Refining of Nonferrous Metals, N.E.C.*
- 3341—Secondary Smelting and Refining of Nonferrous Metals*

Industries in this group produce primary and secondary nonferrous metals and alloys from ores and concentrates and from scrap. The five primary industries (3331 to 3339) are chiefly engaged in extracting metals from ores, concentrates, precipitates, etc. They include (1) establishments which perform smelting operations only and produce metals such as blister copper and lead base bullion, that are not yet of commercial grades; (2) establishments which refine the products of the smelters and produce commercially pure metal; and (3) those which produce refined metals from the ores and concentrates in a single continuous operation. These industries do not include milling or concentrating operations since these are generally located at mine sites and are considered as mineral operations rather than manufacturing activities. Such operations are covered in the 1972 Census of Mineral Industries (SIC Major Group 10—Metal Mining). Also excluded are establishments which produce alumina from bauxite and those which process ores and concentrates primarily for the purpose of producing chemicals such as zinc oxide. Such establishments are included in the chemical group of manufacturing industries. Primary smelters and refiners may also produce considerable quantities of such chemicals as sulfuric acid, zinc oxide, etc.

Inasmuch as many of the companies in the smelting and refining field operate their own mines and milling and concentrating plants, it has been difficult to establish a satisfactory value of the ore or concentrate transferred from the mine to the smelter. In an effort to achieve uniformity and

to conform to reporting by smelters purchasing ore from other companies, the instructions accompanying the 1972 and 1967 report forms specified that such transfers should be reported at an approximate commercial value. In practice, this instruction was not feasible in all cases. In some instances, a comparable commercial form of the ore or concentrate transferred does not exist and, in others, to convert to an approximate commercial value would be unrealistic in view of the actual operations of the various establishments of an integrated company.

Since censuses of manufactures and of mineral industries were being conducted at the same time for 1972 and 1967, it was possible to check the reasonableness of the values of ores and concentrates transferred from mine and mill to smelter as reported by integrated companies. In a number of instances, the value f.o.b. mine and mills reported on the minerals form exceeded the cost of this material shown as an input on the manufactures report, whereas the latter figure should exceed the mine value by approximately the transportation and handling costs. In such cases, the respondent was queried and more reasonable value and cost figures were obtained. These adjustments usually resulted in increased cost figures on the manufactures report and, consequently, reduced the computed "value added by manufacture."

In addition to the integration of mine and smelter, some companies operate both smelting and refining facilities while some are fully integrated from mine through refinery. The transfer of blister copper to refineries operated by the same company was often reported at other than commercial value for the reasons cited above. However, inasmuch as both the smelter and refinery are classified in the same industry, these estimated value figures do not cause a distortion of "value added" for the industry as a whole. On the other hand, the commodity data on shipments of smelter product and materials data on the consumption of these items are affected. For the copper industry, separate data are shown on page 4 for smelters and for refineries. These data must also be interpreted in the light of these limitations.

While a few companies transfer their refined product to fabricating plants under their own ownership, the effect of transfer values on the total figures is much less in this area. Often, while the refinery and fabricating plants may be under the same general financial control, the organizations are so distinct that the transfer of materials is made on the same basis as a commercial transaction.

For industries 3331 to 3339, toll processing is a particularly important activity and a considerable portion of the metal produced is handled on this basis; i.e., it is processed by the

*Note that the "short title" for this industry is used throughout the report.

smelter or the refinery for the owner of the metal for a fee. The fee may be a money payment or may be a combination of a money payment and a provision that the processing plant keep some of the metal. For both the 1972 and 1967 censuses of manufactures, no distinction was made between the plant's shipments of products produced from its own material and the shipments of metal retained as part of the fee for toll processing. However, separate data were reported for the metal returned to toll customers and for the fees received for toll processing.

Data on the tonnages of metals produced by plants engaged in primary smelting and refining of nonferrous metals are published annually by the Bureau of Mines of the U.S. Department of Interior in its Minerals Yearbook. Minor variations exist between the data shown here and those published by the Bureau of Mines. In addition to minor differences occurring from the submittal of separate reports to different agencies, reasons for the variation are the use by the Bureau of the Census of gross weight as contrasted with metal content by the Bureau of Mines for some metals and adjustments made by the Bureau of Mines for the amount of metal estimated as produced from scrap instead of ores or concentrates.

In general, the same definitions were used by the Bureau of the Census in the collection of product statistics as are used by the Bureau of Mines. In particular, it might be noted that the tonnages of refined lead and copper produced by plants making refined lead and copper directly from ores and concentrates are included in the lead base bullion and blister copper figures to arrive at a balance between the blister copper and refined copper figures and base bullion and refined lead figures. These tonnages have been considered as blister copper and lead base bullion produced and consumed in the same plant.

The production and shipments data shown in table 6A represent total production from materials of both domestic and foreign sources. The production and shipments figures shown for primary smelters and refiners include the production from scrap as well as from primary sources such as ores, concentrates, etc. A measure of the extent of secondary production by primary smelters and refiners is shown in table 7A which contains information on the quantity of scrap consumed. Also, a certain amount of the duplication arises if the data shown in table 6A for unalloyed and alloyed metals are combined in that unalloyed metals are consumed by secondary smelters in producing metal alloys. This duplication can be measured by reference to the quantities of unalloyed metal consumed by secondary plants shown in table 7A.

Data on the production of selected nonferrous metals by industry are presented in table 6A. These production data include quantities produced for sale, for interplant transfer, and for further consumption within the producing plant as

well as toll production. However, the coverage ratios shown in table 5B are based on dollar value of shipments (including transfers to other plants of the company) but exclude the value of nonferrous metals produced and consumed within the same plant, as well as shipments of metals produced for other companies on a toll basis.

The general statistics (employment, payroll, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3331.—PRIMARY COPPER (Short Title)

This industry comprises establishments primarily engaged in smelting copper from the ore and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing, or extruding copper are classified in industry 3351 (Copper Rolling and Drawing). For a detailed list of products of industry 3331, refer to table 6A, product codes 33311 11 to 33312 13.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Inasmuch as this industry includes both establishments smelting copper from ore, concentrates, etc., and establishments refining copper by electrolytic or other processes, the total cost of materials and the total value of shipments for this industry include extensive duplication resulting from the use of the products of the smelters as materials for the refiners. Thus, the value of blister copper, which represents an intermediate stage in the production of refined copper, appears twice in the total value of shipments and a corresponding duplication enters into the total cost of materials.

This problem of duplication is largely eliminated by treating smelters and refiners separately and by presenting individual figures for each group. The following table shows separate general statistics—employment, value added, value of shipments, etc.—for the smelters and for the refiners of copper. In order to have the necessary data to prepare this

EXPLANATORY TEXT—Continued

GENERAL STATISTICS FOR PRIMARY COPPER SMELTERS AND REFINERS: 1972 AND 1967

Item	Unit of measure	1972		1967	
		Smelters	Refiners	Smelters	Refiners
Establishments	Number	15	16	15	17
All employees:					
Number	1,000	7.0	10.2	5.0	6.6
Payroll	Mil. dollars ...	72.3	100.9	34.5	46.1
Production and related workers:					
Number	1,000	5.9	8.5	4.0	5.2
Man-hours	Millions	12.0	16.7	7.8	10.3
Wages	Mil. dollars ...	57.9	80.3	25.7	35.3
Value added by manufacture .....	...do	282.4	205.2	130.8	131.8
Cost of materials, fuel, electricity, contract work, and resales .....	...do	1,172.7	1,120.0	460.2	474.8
Value of shipments .....	...do	1,436.7	1,334.3	587.6	596.5

table, where the smelting and refining operations at a single location are distinctly separate stages in the production of the metal, separate reports for smelting and refining departments were obtained. When separate smelting and refining stages are unnecessary, such as in the case with copper produced by leaching and in the case of the production of Lake Superior copper, the establishments have been classified as refiners.

The specialization and coverage ratios for industry 3331 have not been calculated because there is extensive duplication. This duplication is the result of products of some establishments being used as materials by other establishments in the same industry.

Value of shipments and other receipts of the Primary Copper Industry in 1972 totaled \$2,771 million. This included shipments of primary copper (primary products) valued at \$2,336 million, shipments of other products (secondary products) valued at \$277 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$158 million.

INDUSTRY 3332.—PRIMARY LEAD (Short Title)

This industry comprises establishments primarily engaged in smelting lead from the ore and in refining lead by any process. Establishments primarily engaged in rolling, drawing, or extruding lead are classified in industry 3356 (Nonferrous

Rolling and Drawing, N.E.C.). For a detailed list of products of industry 3332, refer to table 6A, product codes 33321 11 to 33323 41.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

The specialization and coverage ratios for industry 3332 have not been calculated because of extensive duplication. This duplication is the result of products of some establishments being used as materials by other establishments in the same industry.

Value of shipments and other receipts of the Primary Lead Industry in 1972 totaled \$461 million.

INDUSTRY 3333.—PRIMARY ZINC (Short Title)

This industry comprises establishments primarily engaged in smelting zinc from the ore and in refining zinc by any process. Establishments primarily engaged in rolling, drawing, or extruding zinc are classified in industry 3356 (Nonferrous Rolling and Drawing, N.E.C.). For a detailed list of products of industry 3333, refer to table 6A, product codes 33331 11 to 33334 55.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Primary Zinc Industry in 1972 totaled \$376 million. This included shipments of primary zinc (primary products) valued at \$312 million, shipments of other products (secondary products) valued at \$45 million, and miscellaneous receipts of \$19 million.

Shipments of primary zinc (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 88 percent. Secondary products shipped by this industry in 1972 consisted mainly of primary nonferrous metals, n.e.c., (\$17 million).

Shipments of primary zinc (primary products) from establishments classified in industry 3333 in 1972 represented 70 percent (coverage ratio) of these products valued at \$447 million shipped by all industries. In 1967, the coverage ratio was 81 percent. Other industries shipping refined zinc consisted mainly of industry 3341, Secondary Nonferrous Metals, (\$110 million).

INDUSTRY 3334.—PRIMARY ALUMINUM (Short Title)

This industry comprises establishments primarily engaged in producing aluminum from alumina and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing, or extruding aluminum are classified in industries 3353 (Aluminum Sheet, Plate, and Foil), 3354 (Aluminum Extruded Products), and 3355 (Aluminum Rolling and Drawing, N.E.C.). For a detailed list of products of industry 3334, refer to table 6A, product codes 33347 11 to 33348 11.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Primary Aluminum Industry in 1972 totaled \$1,960 million. This included shipments of primary aluminum (primary products) valued at \$1,750 million, shipments of other products (secondary products) valued at \$106 million, and miscellaneous receipts of \$104 million.

Shipments of primary aluminum (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent.

Shipments of primary aluminum (primary products) from establishments classified in industry 3334 in 1972 represented 76 percent (coverage ratio) of these products valued at \$2,291 million shipped by all industries. In 1967, the coverage ratio was 78 percent. Other industries shipping aluminum ingot and extrusion billet consisted mainly of industry 3341, Secondary Nonferrous Metals, (\$351 million).

INDUSTRY 3339.—PRIMARY NONFERROUS METALS, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in smelting and refining nonferrous metals, not elsewhere classified. Establishments primarily engaged in rolling, drawing, and extruding these nonferrous primary metals are classified in industry 3356 (Nonferrous Rolling and Drawing, N.E.C.), and the production of bullion at the site of the mine is classified in the mining industries. For a detailed list of products of industry 3339, refer to table 6A, product codes 33395 25 to 33397 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Primary Nonferrous Metals, N.E.C., Industry in 1972 totaled \$400 million. This included shipments of primary nonferrous metals, n.e.c., (primary products) valued at \$308 million, shipments of other products (secondary products) valued at \$57 million, and miscellaneous receipts (mainly resales) of \$34 million.

Shipments of primary nonferrous metals, n.e.c., (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent.

Shipments of primary nonferrous metals, n.e.c., (primary products) from establishments classified in industry 3339 in 1972 represented 27 percent (coverage ratio) of these products valued at \$1,126 million shipped by all industries. In 1967, the coverage ratio was 40 percent. Other industries shipping primary nonferrous metals, n.e.c., consisted mainly of industry 3341, Secondary Nonferrous Metals, (\$383 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3339, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 3341.—SECONDARY NONFERROUS METALS (Short Title)

This industry comprises establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross. This industry includes establishments engaged

in both the recovery and alloying of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining as well as by chemical processes are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining, are classified in trade industries. For a detailed list of products of industry 3341, refer to table 6A, product codes 33412 11 to 33418 11.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Secondary Nonferrous Metals Industry in 1972 totaled \$2,097 million. This included shipments of secondary nonferrous metals (primary products) valued at \$1,688 million, shipments of other products (secondary products) valued at \$33 million, and miscellaneous receipts (mainly resales) of \$376 million.

Shipments of secondary nonferrous metals (primary products) in 1972 represented 98 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. Approximately 29 percent of the total industry shipments are represented by plants specializing in product class 33412, Secondary copper; and 23 percent in 33417, Aluminum ingot.

Shipments of secondary nonferrous metals (primary products) from establishments classified in industry 3341 in 1972 represented 28 percent (coverage ratio) of these products valued at \$5,922 million shipped by all industries. In 1967, the coverage ratio was 26 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3341, these establishments accounted for 11 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3331.--PRIMARY COPPER															
1972 Census.....	31	31	17.2	173.2	14.4	28.7	138.2	487.8	2,298.5	2,771.1	119.7	(NA)	367.6	(²)	(²)
1971 ASM.....	(NA)	(NA)	16.5	147.8	13.5	26.6	116.3	327.4	2,009.2	2,348.3	87.9	644.3	350.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	18.0	154.3	15.1	30.9	123.3	667.4	2,318.6	2,909.5	70.7	585.4	362.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	17.1	137.4	14.6	29.2	111.7	713.6	1,838.5	2,499.7	68.0	507.0	278.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	13.8	104.2	11.6	22.8	82.5	421.7	1,291.6	1,675.3	44.8	472.1	225.8	(NA)	(NA)
1967 Census.....	32	32	11.6	80.6	9.2	18.1	61.0	262.6	935.0	1,184.1	51.7	434.8	188.8	(²)	(²)
1966 ASM.....	(NA)	(NA)	15.8	113.7	13.4	27.8	91.9	362.5	1,349.0	1,701.1	39.9	(NA)	156.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	15.2	105.1	13.1	26.8	85.1	316.9	1,307.4	1,584.4	16.7	(NA)	145.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	14.9	96.4	12.7	25.1	77.7	255.9	1,076.7	1,363.5	9.2	338.3	133.7	(NA)	(NA)
1963 Census.....	33	33	14.9	96.1	12.7	25.8	77.9	285.5	970.0	1,245.5	13.1	329.5	166.4	(²)	(²)
1962 ASM.....	(NA)	(NA)	15.3	95.9	12.8	26.0	75.7	246.7	961.1	1,207.1	10.4	321.2	152.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	15.4	92.8	12.9	26.0	72.4	217.0	922.7	1,168.6	15.1	(NA)	146.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	16.1	93.8	13.8	27.5	74.0	243.4	924.4	1,134.3	10.3	(NA)	171.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	13.1	66.8	11.0	20.4	52.7	166.1	520.9	712.0	9.8	(NA)	126.7	(NA)	(NA)
1958 Census.....	31	30	14.7	77.4	12.4	24.8	61.6	166.2	687.5	861.1	19.3	(NA)	148.3	(²)	(²)
INDUSTRY 3332.--PRIMARY LEAD															
1972 Census.....	16	15	2.8	26.5	2.3	4.6	20.2	128.7	366.5	460.9	5.7	(NA)	131.5	(²)	(²)
1971 ASM.....	(NA)	(NA)	3.5	29.7	2.7	5.6	21.6	65.4	347.3	443.5	4.5	130.7	105.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	4.1	32.5	3.3	6.6	24.1	78.7	450.3	521.8	12.4	131.5	133.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	3.6	27.8	2.9	5.9	20.8	60.3	468.0	519.3	5.0	102.4	121.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	3.1	22.0	2.4	4.9	16.2	61.5	364.4	408.8	16.0	111.1	112.0	(NA)	(NA)
1967 Census.....	19	18	2.7	18.9	2.1	4.3	13.3	48.3	270.8	304.0	18.5	101.4	93.5	(²)	(²)
1966 ASM.....	(NA)	(NA)	2.8	18.7	2.3	4.8	14.3	65.0	309.7	367.4	12.0	(NA)	73.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	2.6	16.6	2.2	4.4	12.6	53.0	296.8	342.2	5.3	(NA)	64.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	2.6	16.4	2.2	4.4	12.3	47.0	286.2	327.3	1.5	55.1	56.8	(NA)	(NA)
1963 Census.....	10	10	2.6	15.0	2.1	4.1	11.2	24.9	228.9	265.1	1.0	54.8	50.0	(²)	(²)
1962 ASM.....	(NA)	(NA)	2.5	14.6	2.1	4.1	10.9	32.1	230.4	268.8	1.4	53.4	62.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	2.7	15.4	2.2	4.5	11.5	28.9	251.7	283.0	1.7	(NA)	68.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	2.8	15.7	2.2	4.6	11.6	40.1	281.5	316.7	.9	(NA)	69.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	2.6	13.8	2.0	3.9	9.7	32.0	177.8	208.9	*.3	(NA)	66.0	(NA)	(NA)
1958 Census.....	13	13	3.6	18.2	2.9	5.7	13.6	36.3	292.5	316.9	.7	(NA)	66.5	(²)	(²)
INDUSTRY 3333.--PRIMARY ZINC															
1972 Census.....	15	15	6.3	59.3	5.2	10.5	45.2	121.6	255.6	376.4	9.8	(NA)	73.7	87	70
1971 ASM.....	(NA)	(NA)	7.1	61.6	5.8	11.8	47.4	86.3	249.4	355.6	6.4	194.9	72.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	8.5	69.9	7.1	14.3	54.9	123.9	268.8	372.5	6.6	230.3	93.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	8.9	70.1	7.5	15.5	55.8	128.9	266.2	387.4	5.9	224.2	69.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	8.2	62.3	6.9	14.3	49.2	111.0	228.9	343.0	6.6	219.1	57.0	(NA)	(NA)
1967 Census.....	18	18	8.1	57.8	6.4	13.5	42.9	119.5	220.8	332.8	25.8	216.4	59.5	88	81
1966 ASM.....	(NA)	(NA)	8.6	57.8	7.0	14.4	43.5	133.8	255.4	379.9	18.9	(NA)	49.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	8.4	53.5	6.9	14.0	40.6	126.7	226.4	356.1	7.3	(NA)	40.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	8.6	51.9	7.1	14.4	39.9	143.3	188.2	336.9	5.1	169.1	38.6	(NA)	(NA)
1963 Census.....	18	18	8.1	47.8	6.6	13.2	36.2	98.8	173.5	281.5	4.7	165.6	46.0	92	81
1962 ASM.....	(NA)	(NA)	8.4	48.5	6.9	14.3	36.9	76.3	177.2	258.5	4.5	161.8	59.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	8.4	46.9	6.7	14.3	35.7	84.2	165.5	257.4	2.7	(NA)	64.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	8.6	47.7	6.7	14.1	34.4	94.6	168.6	252.4	3.0	(NA)	74.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	8.6	45.5	6.8	14.4	33.7	80.6	153.1	236.4	4.1	(NA)	61.7	(NA)	(NA)
1958 Census.....	20	20	8.9	44.1	7.0	13.8	32.6	71.7	140.2	209.0	13.4	(NA)	62.0	90	76
INDUSTRY 3334.--PRIMARY ALUMINUM															
1972 Census.....	31	31	25.6	296.2	20.0	39.2	219.8	816.0	1,080.6	1,959.8	136.5	(NA)	233.7	94	76
1971 ASM.....	(NA)	(NA)	24.2	256.4	19.1	37.6	189.4	717.7	968.5	1,644.2	48.5	2,005.9	277.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	26.7	259.3	21.4	42.5	195.9	816.3	998.0	1,757.9	117.3	1,969.4	229.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	26.0	239.9	21.0	42.5	181.8	849.2	949.5	1,816.8	128.4	1,853.8	156.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	25.0	208.4	20.1	40.0	156.5	875.1	835.3	1,724.3	120.3	1,749.6	169.6	(NA)	(NA)
1967 Census.....	25	24	23.8	190.9	19.2	38.4	145.2	811.8	841.6	1,608.7	151.7	1,654.8	176.8	97	78
1966 ASM.....	(NA)	(NA)	21.1	168.1	17.1	34.7	127.4	725.1	776.1	1,496.2	65.8	(NA)	113.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	20.7	156.5	16.8	33.5	119.9	634.9	707.9	1,364.7	60.5	(NA)	109.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	20.3	146.6	16.7	32.0	111.9	549.2	653.2	1,191.4	51.8	1,324.6	129.6	(NA)	(NA)
1963 Census.....	23	22	18.1	134.1	14.5	29.5	101.4	499.6	571.9	1,090.0	62.2	1,286.2	106.5	100	75
1962 ASM.....	(NA)	(NA)	17.2	125.6	13.7	27.9	94.6	472.0	521.8	1,014.9	10.8	1,258.5	124.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	16.2	117.2	12.7	26.1	86.2	454.2	489.1	953.9	19.3	(NA)	139.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	17.8	124.0	14.1	29.1	92.5	472.7	503.1	921.2	26.6	(NA)	157.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	18.0	122.6	14.4	30.0	92.6	459.3	476.7	953.8	38.5	(NA)	101.0	(NA)	(NA)
1958 Census.....	20	20	17.4	111.6	13.4	27.7	82.7	383.8	411.8	808.8	142.3	(NA)	111.3	100	76

See footnotes a' and of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3339.--PRIMARY NONFERROUS METALS, N.E.C.															
1972 Census.....	82	32	6.7	71.7	4.7	9.1	42.4	151.5	240.8	399.9	20.6	(NA)	86.1	84	27
1971 ASM.....	(NA)	(NA)	7.9	76.6	5.4	11.2	47.4	173.7	332.6	499.0	29.1	275.6	118.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	8.2	76.7	5.6	12.0	47.8	175.7	322.5	487.2	31.0	253.6	104.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	8.4	72.2	6.1	13.0	47.3	166.3	356.9	522.5	34.8	261.2	98.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	7.8	64.0	5.6	11.6	41.6	149.7	270.9	416.8	27.4	206.1	79.6	(NA)	(NA)
1967 Census.....	50	29	7.2	56.9	5.2	11.2	38.1	139.3	158.1	284.4	25.1	188.0	73.2	87	40
1966 ASM.....	(NA)	(NA)	7.0	53.5	5.3	11.3	37.1	129.5	183.8	309.2	31.0	(NA)	62.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.9	42.6	4.5	9.4	29.5	100.9	143.6	246.8	19.8	(NA)	57.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	4.5	31.9	3.4	7.3	22.6	93.7	115.4	204.4	9.2	175.3	59.6	(NA)	(NA)
1963 Census.....	35	26	5.1	34.8	3.8	8.1	24.7	103.8	115.5	212.2	6.4	171.3	55.8	83	39
1962 ASM.....	(NA)	(NA)	4.9	30.7	3.7	7.6	22.2	93.4	80.6	169.7	6.4	168.2	47.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	4.0	24.6	3.0	6.4	18.5	82.4	65.1	148.5	13.7	(NA)	34.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	4.1	26.4	3.2	7.0	19.6	90.0	68.1	149.2	11.5	(NA)	34.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	2.7	17.3	1.9	4.3	11.9	54.5	45.3	99.2	*13.1	(NA)	18.6	(NA)	(NA)
1958 Census.....	29	18	2.7	15.9	1.9	4.0	10.7	50.5	42.1	96.6	4.0	(NA)	17.4	92	24
INDUSTRY 3341.--SECONDARY NONFERROUS METALS															
1972 Census.....	381	184	17.8	170.1	13.2	26.6	108.2	410.7	1,685.0	2,097.2	34.9	(NA)	205.8	98	28
1971 ASM.....	(NA)	(NA)	15.7	137.2	11.5	24.2	87.5	281.6	1,350.1	1,644.0	23.6	285.0	180.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	17.3	138.1	13.0	27.2	89.1	327.3	1,482.4	1,805.1	*48.5	319.1	195.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	18.4	144.6	13.9	29.4	94.5	364.5	1,573.7	1,916.8	40.0	265.5	209.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	17.8	133.9	13.4	28.3	87.3	306.8	1,419.9	1,725.1	36.5	241.4	175.7	(NA)	(NA)
1967 Census.....	403	182	17.2	122.8	12.8	26.6	78.4	271.2	1,314.0	1,586.0	23.6	223.0	174.6	89	26
1966 ASM.....	(NA)	(NA)	16.8	116.9	12.5	26.3	74.4	293.3	1,409.9	1,709.2	29.6	(NA)	172.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	16.1	107.9	11.8	24.9	68.0	240.1	1,252.4	1,493.6	27.6	(NA)	165.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	16.5	110.9	11.9	25.9	70.0	265.6	1,027.2	1,290.6	17.2	192.7	156.5	(NA)	(NA)
1963 Census.....	459	179	15.4	96.3	11.3	23.8	60.5	228.2	823.1	1,045.5	17.9	185.6	143.1	94	26
1962 ASM.....	(NA)	(NA)	15.7	99.0	12.4	26.4	64.6	188.8	781.9	971.8	*10.4	174.3	121.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	15.8	97.1	12.4	26.9	62.8	180.8	782.0	957.8	14.9	(NA)	131.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	16.5	94.4	12.7	27.6	59.3	167.5	749.4	923.1	10.0	(NA)	119.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	16.2	89.1	12.6	26.3	55.9	166.7	754.3	906.1	7.5	(NA)	124.6	(NA)	(NA)
1958 Census.....	387	152	14.4	75.7	10.8	21.2	46.9	147.3	581.6	724.0	5.4	(NA)	105.3	93	30

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3331	Industry 3332	Industry 3333	Industry 3334	Industry 3339	Industry 3341
1972.....	11	12	10	12	32	325
1967.....	11	10	11	8	41	351
1963.....	13	6	11	7	32	406

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²The value of shipments and cost of materials for this industry include substantial duplication; therefore, specialization and coverage ratios were not calculated.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3331.--PRIMARY COPPER											
1972 Census.....	10,070	(NA)	84	1,993	4.82	.83	.89	(NA)	28,360	36	17.00
1971 ASM.....	8,958	39,050	82	1,970	4.37	.86	.92	.27	19,842	45	12.31
1970 ASM.....	8,572	32,520	84	2,046	3.99	.80	.85	.20	37,078	23	21.60
1969 ASM.....	8,035	29,650	85	2,000	3.83	.74	.79	.20	41,731	19	24.44
1968 ASM.....	7,551	34,210	84	1,966	3.62	.77	.83	.28	30,558	25	18.50
1967 Census.....	6,948	37,480	79	1,967	3.37	.79	.86	.37	22,638	31	14.51
1966 ASM.....	7,217	(NA)	85	2,075	3.30	.79	.86	(NA)	23,004	31	13.02
1965 ASM.....	6,907	(NA)	86	2,049	3.18	.81	.87	(NA)	20,817	33	11.84
1964 ASM.....	6,468	22,700	86	1,966	3.10	.79	.86	.25	17,169	38	10.21
1963 Census.....	6,431	22,110	85	2,033	3.02	.78	.86	.26	19,099	34	11.05
1962 ASM.....	6,285	22,990	84	2,031	2.91	.80	.88	.27	16,168	39	9.49
1961 ASM.....	6,025	(NA)	84	2,016	2.79	.79	.87	(NA)	14,082	43	8.35
1960 ASM.....	5,821	(NA)	86	1,987	2.69	.81	.90	(NA)	15,099	39	8.86
1959 ASM.....	5,079	(NA)	84	1,852	2.59	.73	.83	(NA)	12,635	40	8.15
1958 Census.....	5,256	(NA)	84	2,001	2.49	.80	.89	(NA)	11,290	47	6.70
INDUSTRY 3332.--PRIMARY LEAD											
1972 Census.....	9,464	(NA)	82	2,000	4.39	.80	.85	(NA)	45,964	21	27.98
1971 ASM.....	8,486	37,340	77	2,074	3.86	.84	.90	.29	18,686	45	11.68
1970 ASM.....	7,927	32,070	81	2,000	3.65	.86	.93	.25	19,195	41	11.92
1969 ASM.....	7,722	28,440	81	2,034	3.53	.90	.95	.20	16,750	46	10.22
1968 ASM.....	7,097	35,840	77	2,042	3.31	.89	.95	.27	19,839	36	12.55
1967 Census.....	7,000	37,560	78	2,048	3.09	.89	.95	.33	17,889	39	11.23
1966 ASM.....	6,734	(NA)	85	2,033	3.01	.84	.89	(NA)	23,440	29	13.63
1965 ASM.....	6,351	(NA)	83	2,003	2.87	.87	.92	(NA)	20,216	31	12.10
1964 ASM.....	6,284	21,190	83	2,038	2.78	.87	.92	.17	18,026	35	10.61
1963 Census.....	5,817	21,080	82	1,932	2.72	.86	.92	.21	9,649	60	6.06
1962 ASM.....	5,830	21,360	82	1,973	2.68	.86	.91	.20	12,778	46	7.90
1961 ASM.....	5,727	(NA)	82	2,017	2.58	.89	.94	(NA)	10,776	53	6.50
1960 ASM.....	5,722	(NA)	80	2,069	2.54	.89	.94	(NA)	14,585	39	8.76
1959 ASM.....	5,311	(NA)	78	1,948	2.48	.85	.92	(NA)	12,300	43	8.14
1958 Census.....	5,103	(NA)	80	1,986	2.39	.92	.98	(NA)	10,195	50	6.39
INDUSTRY 3333.--PRIMARY ZINC											
1972 Census.....	9,413	(NA)	83	2,019	4.30	.68	.84	(NA)	19,302	49	11.58
1971 ASM.....	8,676	27,450	82	2,034	4.02	.70	.87	.55	12,155	71	7.31
1970 ASM.....	8,224	27,090	84	2,014	3.84	.72	.91	.62	14,576	56	8.66
1969 ASM.....	7,876	25,190	84	2,067	3.60	.69	.87	.58	14,483	54	8.32
1968 ASM.....	7,598	26,720	84	2,072	3.44	.67	.85	.64	13,537	56	7.76
1967 Census.....	7,123	26,720	80	2,077	3.18	.66	.84	.65	14,753	48	8.85
1966 ASM.....	6,749	(NA)	82	2,042	3.02	.67	.82	(NA)	15,611	43	9.29
1965 ASM.....	6,336	(NA)	82	2,015	2.91	.64	.79	(NA)	15,011	42	9.08
1964 ASM.....	6,021	19,660	82	2,022	2.78	.56	.71	.50	16,626	36	9.97
1963 Census.....	5,922	20,440	82	2,014	2.74	.62	.79	.59	12,249	48	7.46
1962 ASM.....	5,744	19,260	82	2,077	2.58	.69	.87	.63	9,030	64	5.33
1961 ASM.....	5,606	(NA)	81	2,116	2.50	.64	.83	(NA)	10,071	56	5.91
1960 ASM.....	5,555	(NA)	78	2,105	2.44	.67	.86	(NA)	11,024	50	6.70
1959 ASM.....	5,275	(NA)	79	2,117	2.33	.65	.84	(NA)	9,343	56	5.58
1958 Census.....	4,940	(NA)	78	1,970	2.37	.67	.88	(NA)	8,030	62	5.20
INDUSTRY 3334.--PRIMARY ALUMINUM											
1972 Census.....	11,570	(NA)	78	1,960	5.61	.55	.70	(NA)	31,875	36	20.82
1971 ASM.....	10,595	82,890	79	1,969	5.04	.59	.74	1.22	29,657	36	19.09
1970 ASM.....	9,712	73,760	80	1,986	4.61	.57	.57	1.12	30,573	32	19.21
1969 ASM.....	9,227	71,300	81	2,024	4.28	.52	.65	1.02	32,662	28	19.98
1968 ASM.....	8,336	69,980	80	1,990	3.91	.48	.61	1.01	35,004	24	21.88
1967 Census.....	8,021	69,530	81	2,000	3.78	.52	.64	1.03	34,109	24	21.14
1966 ASM.....	7,952	(NA)	81	2,036	3.67	.52	.63	(NA)	34,296	23	20.89
1965 ASM.....	7,576	(NA)	81	2,000	3.57	.52	.63	(NA)	30,722	25	18.93
1964 ASM.....	7,209	65,250	82	1,919	3.49	.55	.67	1.11	27,012	27	17.14
1963 Census.....	7,396	71,060	80	2,039	3.44	.52	.65	1.18	27,551	27	16.94
1962 ASM.....	7,292	73,170	79	2,042	3.39	.51	.64	1.24	27,407	27	16.90
1961 ASM.....	7,231	(NA)	78	2,062	3.30	.51	.64	(NA)	28,036	26	17.41
1960 ASM.....	6,945	(NA)	79	2,063	3.18	.55	.68	(NA)	26,485	26	16.23
1959 ASM.....	6,813	(NA)	80	2,090	3.09	.50	.63	(NA)	25,520	27	15.30
1958 Census.....	6,420	(NA)	77	2,066	2.98	.51	.65	(NA)	22,084	29	13.84

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3339.--PRIMARY NONFERROUS METALS, N.E.C.											
1972 Census.....	9,354	(NA)	70	1,936	4.66	.60	.78	(NA)	22,612	47	16.65
1971 ASM.....	9,696	34,886	68	2,074	4.23	.67	.82	.55	21,987	44	15.51
1970 ASM.....	9,354	30,927	68	2,143	3.98	.66	.82	.52	21,427	44	14.64
1969 ASM.....	8,595	31,100	73	2,131	3.64	.68	.82	.50	19,798	43	12.79
1968 ASM.....	8,205	26,420	72	2,071	3.59	.65	.80	.49	19,192	43	12.91
1967 Census.....	7,903	26,110	72	2,154	3.40	.56	.76	.66	19,347	41	12.44
1966 ASM.....	7,690	(NA)	76	2,136	3.29	.59	.77	(NA)	18,625	41	11.49
1965 ASM.....	7,215	(NA)	76	2,095	3.13	.58	.75	(NA)	17,086	42	10.69
1964 ASM.....	7,132	38,960	76	2,134	3.11	.56	.72	.86	20,959	34	12.89
1963 Census.....	6,873	33,590	75	2,154	3.03	.54	.71	.81	20,504	34	12.74
1962 ASM.....	6,293	34,330	75	2,091	2.90	.47	.66	.99	19,114	33	12.22
1961 ASM.....	6,084	(NA)	75	2,139	2.87	.44	.60	(NA)	20,411	30	12.78
1960 ASM.....	6,427	(NA)	79	2,149	2.82	.46	.63	(NA)	21,908	29	12.94
1959 ASM.....	6,514	(NA)	73	2,203	2.79	.46	.63	(NA)	20,573	32	12.75
1958 Census.....	5,997	(NA)	72	2,071	2.70	.44	.60	(NA)	18,997	32	12.70
INDUSTRY 3341.--SECONDARY NONFERROUS METALS											
1972 Census.....	9,556	(NA)	74	2,015	4.07	.80	.88	(NA)	23,079	41	15.44
1971 ASM.....	8,739	18,153	73	2,104	3.62	.82	.90	.17	17,936	49	11.64
1970 ASM.....	7,983	18,445	75	2,092	3.28	.82	.90	.18	18,919	42	12.03
1969 ASM.....	7,859	14,430	76	2,115	3.21	.82	.90	.14	19,810	40	12.40
1968 ASM.....	7,522	13,560	75	2,112	3.09	.82	.90	.14	17,236	44	10.84
1967 Census.....	7,140	12,970	74	2,078	2.95	.83	.91	.14	15,767	45	10.20
1966 ASM.....	6,969	(NA)	74	2,111	2.82	.82	.89	(NA)	17,485	40	11.14
1965 ASM.....	6,715	(NA)	73	2,107	2.74	.84	.91	(NA)	14,938	45	9.66
1964 ASM.....	6,733	11,680	72	2,185	2.70	.80	.88	.15	16,123	42	10.26
1963 Census.....	6,235	12,050	73	2,098	2.54	.79	.88	.18	14,774	42	9.60
1962 ASM.....	6,302	11,100	79	2,122	2.45	.80	.91	.18	12,015	52	7.16
1961 ASM.....	6,139	(NA)	78	2,177	2.34	.82	.92	(NA)	11,429	54	6.72
1960 ASM.....	5,714	(NA)	77	2,180	2.15	.81	.91	(NA)	10,134	56	6.07
1959 ASM.....	5,499	(NA)	78	2,090	2.13	.83	.93	(NA)	10,288	53	6.34
1958 Census.....	5,240	(NA)	75	1,960	2.21	.80	.91	(NA)	10,197	51	6.95

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3331-- PRIMARY COPPER													
UNITED STATES.	31	31	17.2	173.2	14.4	28.7	138.2	487.8	2 298.5	2 771.1	119.7	11.6	262.6
NORTHEAST REGION.	6	6	4.4	44.1	3.6	7.0	34.3	72.3	263.2	333.6	(D)	3.9	43.3
MIDDLE ATLANTIC DIVISION.	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY.	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	10.9
EAST NORTH CENTRAL DIVISION.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	10.9
ILLINOIS.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MICHIGAN.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION.	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	32.3
SOUTH ATLANTIC DIVISION.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
EAST SOUTH CENTRAL DIVISION.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION.	18	18	9.0	92.7	7.6	15.3	74.1	365.9	1 722.0	2 062.5	100.2	5.2	176.1
MOUNTAIN DIVISION.	16	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MONTANA.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW MEXICO.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ARIZONA.	9	9	3.4	36.4	2.9	6.1	28.5	182.3	697.4	859.0	75.1	EE	(D)
UTAH.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEVADA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WASHINGTON.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3332-- PRIMARY LEAD													
UNITED STATES.	16	15	2.8	26.5	2.3	4.6	20.2	128.7	366.5	460.9	5.7	2.7	48.3
NORTH CENTRAL REGION.	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	16.1
EAST NORTH CENTRAL DIVISION.	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION.	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSOURI.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEBRASKA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MOUNTAIN DIVISION.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MONTANA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDAHO.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3333-- PRIMARY ZINC													
UNITED STATES.	15	15	6.3	59.3	5.2	10.5	45.2	121.6	255.6	376.4	9.8	8.1	119.5
NORTHEAST REGION.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	43.0
OKLAHOMA.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TEXAS.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MOUNTAIN DIVISION.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MONTANA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
IDAHO.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3334-- PRIMARY ALUMINUM													
UNITED STATES.	31	31	25.6	296.2	20.0	39.2	219.8	816.0	1 080.6	1 959.8	136.5	23.8	1 608.7
NORTHEAST REGION.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3334-- PRIMARY ALUMINUM--CONTINUED													
SOUTH REGION	17	17	16.1	186.0	12.7	24.5	139.1	447.6	610.5	1 095.1	112.7	12.8	450.9
SOUTH ATLANTIC DIVISION.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CAROLINA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
EAST SOUTH CENTRAL DIVISION.	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ALABAMA	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION.	8	8	9.6	110.5	7.7	14.8	84.0	271.7	316.9	618.3	7.8	7.3	253.6
ARKANSAS	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
LOUISIANA	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TEXAS	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST REGION.	10	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.4	228.8
MOUNTAIN DIVISION.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MONTANA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OREGON	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339-- PRIMARY NONFERROUS METALS, NEC													
UNITED STATES.	82	32	6.7	71.7	4.7	9.1	42.4	150.7	240.8	399.9	20.6	7.2	139.3
NORTHEAST REGION	35	15	1.8	18.4	1.3	2.6	11.3	42.3	107.6	148.9	(D)	1.4	29.1
MIDDLE ATLANTIC DIVISION.	29	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK	10	4	.6	6.0	.4	.8	3.9	14.8	32.0	46.8	1.3	(NA)	(NA)
NEW JERSEY	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	15.2
NORTH CENTRAL REGION	20	5	.8	9.1	.6	1.3	5.8	17.2	44.8	64.2	(D)	.9	9.3
EAST NORTH CENTRAL DIVISION.	16	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.3
OHIO	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
INDIANA	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	12	6	2.1	24.1	1.4	2.4	13.0	57.8	55.1	108.2	(D)	3.6	75.7
EAST SOUTH CENTRAL DIVISION.	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION.	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TEXAS	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST REGION. E1	15	6	1.9	20.1	1.4	2.8	12.4	33.5	33.3	77.9	4.9	1.3	25.1
MOUNTAIN DIVISION.	7	3	.5	5.4	.3	.6	2.5	8.5	8.1	21.0	1.0	AA	(D)
UTAH	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E1	8	3	1.4	14.6	1.0	2.2	9.8	25.0	25.2	56.8	3.9	EE	(D)
WASHINGTON	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.4
OREGON	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3341-- SECONDARY NONFERROUS METALS													
UNITED STATES. E1	381	184	17.8	170.1	13.2	26.6	108.2	410.7	1 685.0	2 097.2	34.9	17.2	271.2
NORTHEAST REGION	137	53	5.7	54.2	4.1	7.8	33.6	122.5	585.4	704.8	8.5	5.6	89.6
NEW ENGLAND DIVISION E2	32	10	.5	5.0	.4	.8	2.7	15.9	36.8	53.1	1.1	.4	6.7
MASSACHUSETTS. E1	15	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.6
MIDDLE ATLANTIC DIVISION	105	43	5.1	49.1	3.7	7.1	30.9	106.6	548.6	651.7	7.4	5.1	82.4
NEW YORK	43	13	1.6	16.8	1.2	2.1	10.5	42.4	214.7	256.2	2.6	1.6	25.3
NEW JERSEY	28	12	1.4	13.7	1.0	2.0	8.8	27.1	162.8	190.2	.8	1.6	34.3
PENNSYLVANIA	34	18	2.1	18.6	1.5	2.9	11.6	37.2	171.0	205.4	3.9	1.9	22.7
NORTH CENTRAL REGION	117	73	7.3	72.6	5.3	11.2	46.1	163.8	644.3	815.1	18.7	7.3	115.1
EAST NORTH CENTRAL DIVISION.	101	65	6.0	60.7	4.4	9.3	38.2	138.2	493.0	632.8	17.8	6.5	97.9
OHIO E1	28	19	1.7	17.7	1.3	2.9	11.8	32.6	123.1	156.1	1.7	EE	(D)
INDIANA	9	6	.7	7.7	.5	1.0	4.4	11.1	64.7	76.5	2.1	EE	(D)
ILLINOIS	39	28	2.6	26.6	1.9	3.9	16.3	54.1	248.8	300.8	10.5	2.7	40.1
MICHIGAN E1	16	9	.7	6.2	.5	1.1	4.0	32.8	35.6	70.8	(D)	CC	(D)
WISCONSIN	9	3	.3	2.6	.2	.4	1.7	7.5	20.8	28.6	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	16	8	1.3	11.9	1.0	1.9	7.9	25.9	151.3	182.6	.8	.9	17.2
MISSOURI	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION E1	61	32	2.8	24.6	2.2	4.7	17.3	81.7	300.2	379.6	5.1	2.4	35.2
SOUTH ATLANTIC DIVISION. E1	19	10	.8	7.0	.6	1.3	4.8	18.3	70.4	89.0	1.4	.9	12.8
DELAWARE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
VIRGINIA E3	3	3	.2	1.6	.1	.3	1.1	4.5	23.9	28.8	.2	(NA)	(NA)
FLORIDA	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	20	11	.9	8.5	.7	1.5	5.9	26.6	172.6	197.6	2.3	.7	13.8
KENTUCKY	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	7.1
WEST SOUTH CENTRAL DIVISION. E4	22	11	1.1	9.1	.9	1.8	6.6	36.9	57.3	93.0	1.4	.8	8.3
LOUISIANA	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS E5	18	7	.8	6.6	.6	1.2	4.5	27.9	39.7	67.4	1.2	.6	6.1

See footnotes at end of table.

(See appendix. Explanation of Terms)

AA-- 150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

(See appendix. Explanation of Terms)

³The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3331-- PRIMARY COPPER											
ESTABLISHMENTS, TOTAL.	31	17.2	173.2	14.4	28.7	138.2	487.8	2 298.5	2 771.1	119.7	367.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
50 TO 99 EMPLOYEES.	1	1.5	14.6	1.2	2.7	12.0	67.2	327.8	386.0	16.7	37.7
100 TO 249 EMPLOYEES.	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES.	8	3.2	33.2	2.7	5.5	26.7	161.8	388.8	540.9	40.5	90.8
500 TO 999 EMPLOYEES.	9	6.0	59.3	5.0	9.8	47.3	119.3	923.1	1 032.3	41.5	135.9
1,000 TO 2,499 EMPLOYEES.	5	6.6	66.1	5.4	10.7	52.2	139.5	658.7	811.9	20.9	103.2
3332-- PRIMARY LEAD											
ESTABLISHMENTS, TOTAL.	16	2.8	26.5	2.3	4.6	20.2	128.7	366.5	460.9	5.7	131.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
10 TO 19 EMPLOYEES.	1	2.2	1.6	1.1	2.3	1.0	2.8	21.1	25.9	2.3	2.7
20 TO 49 EMPLOYEES.	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 TO 99 EMPLOYEES.	1	2.6	24.9	2.1	4.3	19.3	125.9	345.3	435.0	5.4	128.8
100 TO 249 EMPLOYEES.	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3333-- PRIMARY ZINC											
ESTABLISHMENTS, TOTAL.	15	6.3	59.3	5.2	10.5	45.2	121.6	255.6	376.4	9.8	73.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
20 TO 49 EMPLOYEES.	4	1.3	11.0	1.3	2.3	8.9	26.3	63.2	90.3	.8	11.6
50 TO 99 EMPLOYEES.	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES.	5	5.0	48.3	4.0	8.2	36.3	95.3	192.4	286.1	9.0	62.1
1,000 TO 2,499 EMPLOYEES.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3334-- PRIMARY ALUMINUM											
ESTABLISHMENTS, TOTAL.	31	25.6	296.2	20.0	39.2	219.8	816.0	1 080.6	1 959.8	136.5	233.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
20 TO 49 EMPLOYEES.	1	3.2	35.1	2.3	4.6	23.1	92.1	153.9	248.7	99.7	39.6
100 TO 249 EMPLOYEES.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES.	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES.	14	10.6	121.1	8.2	15.7	88.0	334.6	509.6	876.7	(D)	107.9
1,000 TO 2,499 EMPLOYEES.	8	11.8	140.0	9.6	18.8	108.7	389.4	417.2	834.4	36.7	86.2
3339-- PRIMARY NONFERROUS METALS, NEC											
ESTABLISHMENTS, TOTAL.	82	6.7	71.7	4.7	9.1	42.4	151.5	240.8	399.9	20.6	86.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES. E8	27	(2)	.4	(2)	.1	.3	.9	2.0	3.1	.1	.6
5 TO 9 EMPLOYEES. E1	11	.1	.7	(2)	.1	.4	.9	5.9	6.4	.2	1.1
10 TO 19 EMPLOYEES.	12	2	1.5	.1	.3	1.0	4.7	12.4	16.6	1.2	3.5
20 TO 49 EMPLOYEES. E1	10	.3	3.2	.2	.4	1.7	13.1	55.1	68.4	.7	9.1
50 TO 99 EMPLOYEES.	8	.5	4.6	.4	.8	3.2	11.1	20.9	32.2	1.3	4.4
100 TO 249 EMPLOYEES.	7	1.0	10.3	.7	1.5	7.2	23.0	29.8	57.8	2.7	12.9
250 TO 499 EMPLOYEES.	5	4.5	51.0	3.0	6.0	28.7	98.0	114.6	215.6	14.3	54.5
1,000 TO 2,499 EMPLOYEES.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	22	(2)	.5	(2)	.1	.3	.7	1.4	2.2	.1	.5
3341-- SECONDARY NONFERROUS METALS											
ESTABLISHMENTS, TOTAL. E1	381	17.8	170.1	13.2	26.6	108.2	410.7	1 685.0	2 097.2	34.9	205.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES. E8	98	.2	1.6	.2	.3	1.0	3.4	12.7	16.1	.3	1.5
5 TO 9 EMPLOYEES. E4	52	.3	3.1	.3	.5	1.8	7.9	27.9	35.8	.5	3.6
10 TO 19 EMPLOYEES. E1	47	.7	6.2	.5	1.0	3.5	13.8	45.9	59.2	1.2	6.1
20 TO 49 EMPLOYEES. E2	75	2.5	22.9	1.9	3.8	14.1	56.4	183.1	238.0	4.1	25.0
50 TO 99 EMPLOYEES. E1	54	3.8	34.2	2.9	5.4	21.5	88.0	306.3	394.3	8.5	43.0
100 TO 249 EMPLOYEES.	46	6.9	68.4	5.1	10.7	44.5	146.5	698.0	845.2	16.4	84.0
250 TO 499 EMPLOYEES.	7	3.5	33.8	2.4	5.0	21.6	94.9	411.2	508.5	3.8	42.6
500 TO 999 EMPLOYEES.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	109	.3	2.7	.3	.5	1.8	5.0	21.4	26.4	.4	2.6

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (2) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3331	PRIMARY COPPER										
	ENTIRE INDUSTRY	31	17.2	173.2	14.4	28.7	138.2	487.8	2 298.5	2 771.1	119.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	24	10.9	111.2	9.2	18.5	88.9	397.0	1 914.9	2 285.1	109.7
33311	COPPER SMELTER PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	15	8.4	87.6	7.1	14.4	69.7	292.9	1 176.8	1 451.1	87.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33312	REFINED PRIMARY COPPER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	14	7.9	76.7	6.7	13.0	62.1	170.0	1 112.7	1 285.5	27.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	10	4.2	40.5	3.5	6.8	32.4	126.4	745.4	863.6	25.3
3332	PRIMARY LEAD										
	ENTIRE INDUSTRY	16	2.8	26.5	2.3	4.6	20.2	128.7	366.5	460.9	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33321	LEAD SMELTER PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33323	REFINED PRIMARY LEAD (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	10	1.7	15.5	1.4	2.8	12.0	88.2	232.7	299.7	4.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	5	.8	7.6	.7	1.3	5.7	46.1	58.9	98.9	(D)
3333	PRIMARY ZINC										
	ENTIRE INDUSTRY	15	6.3	59.3	5.2	10.5	45.2	121.6	255.6	376.4	9.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33331	ZINC RESIDUES AND OTHER ZINC SMELTER PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33334	REFINED PRIMARY ZINC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	13	6.1	58.2	5.1	10.3	44.5	121.2	248.3	367.2	9.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3334	PRIMARY ALUMINUM										
	ENTIRE INDUSTRY	31	25.6	296.2	20.0	39.2	219.8	816.0	1 080.6	1 959.8	136.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	25	20.1	235.1	15.7	31.0	174.3	667.3	890.5	1 599.4	61.8
33347	ALUMINUM INGOT, PRIMARY ALUMINUM REDUCTION PLANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	27	21.9	254.3	17.0	33.7	189.6	742.2	955.9	1 761.1	64.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	17	15.6	182.3	12.4	24.2	137.1	505.6	698.8	1 210.5	50.0
33348	ALUM. EXTRUSION BILLET, PRIM. ALUM. REDUC. PLANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3339	PRIMARY NONFERROUS METALS, NEC										
	ENTIRE INDUSTRY	82	6.7	71.7	4.7	9.1	42.4	151.5	240.8	399.9	20.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	71	5.2	56.9	3.5	6.9	32.7	122.4	169.3	291.8	18.5
33395	PRECIOUS METALS (PRIMARY SMELTING) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	7	.2	1.9	.1	.1	1.0	6.7	31.6	37.5	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33397	OTHER PRIMARY NONFERR. METALS, SMELTED, REFINED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	29	5.6	60.9	3.9	7.7	36.4	129.6	165.4	303.0	17.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	21	4.5	49.4	3.1	6.1	29.2	107.6	124.9	237.4	16.6
3341	SECONDARY NONFERROUS METALS										
	ENTIRE INDUSTRY	381	17.8	170.1	13.2	26.6	108.2	410.7	1 685.0	2 097.2	34.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	336	12.6	119.2	9.3	18.9	75.5	261.1	1 178.5	1 440.2	28.2
33412	SECONDARY COPPER (PIG, INGOT, SHOT, ETC.) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	44	4.9	49.4	3.5	7.0	30.3	87.5	539.2	692.6	12.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	35	3.1	31.4	2.3	4.6	19.8	53.2	363.8	422.4	10.3
33413	SECONDARY LEAD (PIG, INGOT, SHOT, ETC.) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	56	3.4	30.8	2.5	5.0	19.5	74.2	212.5	283.7	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	46	2.7	23.0	1.9	3.9	14.4	51.7	162.6	211.9	1.9
33414	SECONDARY ZINC (PIG, INGOT, SHOT, ETC.) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	13	.6	5.6	.4	.9	3.3	13.0	47.4	59.8	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	9	.4	3.1	.3	.5	1.8	7.4	29.4	36.4	.3
33415	PRECIOUS METALS PRODUCED BY SECONDARY REFINERIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	24	1.2	12.5	.8	1.5	6.8	33.2	162.9	195.7	1.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33416	OTHER SECONDARY NONFERROUS METALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	14	1.1	11.4	.8	1.8	7.2	61.5	162.0	222.5	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33417	ALUMINUM INGOT, PRODUCED BY SECONDARY SMELTERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	52	4.0	38.3	3.0	6.4	26.3	73.3	321.1	397.5	6.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	41	2.9	29.1	2.3	4.8	20.0	55.0	227.3	285.3	5.9
33418	ALUMINUM EXTRUSION BILLET, SECONDARY SMELTERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	6	.3	3.0	.3	.6	2.0	7.0	29.9	36.5	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	6	.3	3.0	.3	.6	2.0	7.0	29.9	36.5	.8

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3331	Primary copper.....1972..	2,771.1	2,336.2	277.2	157.7	(¹)	2,847.1	2,336.2	510.9	(¹)
	.....1967..	1,184.1	1,018.5	81.8	83.8	(¹)	1,383.3	1,018.5	364.8	(¹)
3332	Primary lead.....1972..	460.9	(D)	(D)	18.5	(¹)	(D)	(D)	(D)	(¹)
	.....1967..	304.0	(D)	(D)	6.8	(¹)	(D)	(D)	(D)	(¹)
3333	Primary zinc.....1972..	376.4	312.5	45.0	18.9	87	447.3	312.5	134.8	² 70
	.....1967..	332.8	274.6	36.1	22.1	88	339.1	274.6	64.5	² 81
3334	Primary aluminum.....1972..	1,959.8	1,750.4	105.6	103.8	94	2,290.6	1,750.4	540.2	³ 76
	.....1967..	1,608.7	1,535.5	44.1	29.1	97	1,963.5	1,535.5	428.0	³ 78
3339	Primary nonferrous metals, n.e.c.....1972..	399.9	308.5	57.4	34.0	84	1,125.6	308.5	817.1	⁴ 27
	.....1967..	284.4	246.2	27.0	11.2	87	618.5	246.2	372.3	⁴ 40
3341	Secondary nonferrous metals.....1972..	2,097.2	1,687.5	33.3	376.4	98	5,922.2	1,687.5	4,234.7	⁵ 28
	.....1967..	1,586.0	1,079.6	135.2	371.2	89	4,134.1	1,079.6	3,054.5	⁵ 26

(D) Withheld to avoid disclosing figures for individual companies.

¹Specialization and coverage ratios have not been calculated for industries 3331, Primary Copper, and 3332, Primary Lead, because the shipments of primary products for these industries contain extensive duplication.

²Included in this industry is refined zinc which is also primary to industry 3341, Secondary Nonferrous Metals. A coverage ratio for 1972 computed on the basis of including both industries to which refined zinc is primary would total 96 percent: 70 percent by industry 3333 and 26 percent by industry 3341. The remainder was shipped by establishments in other industries. The comparable 1967 percentages are as follows: Total, 96 percent; 81 percent in SIC 3333; and 15 percent in SIC 3341. The remainder was shipped by establishments in other industries.

³Included in this industry are aluminum-base alloys which are also primary to industry 3341, Secondary Nonferrous Metals, and industries 3353, Aluminum Sheet, Plate, and Foil; 3354, Aluminum Extruded Products; and 3355, Aluminum Rolling and Drawing, N.E.C. A coverage ratio for 1972 computed on the basis of including all five industries to which aluminum-base alloys are primary would total 98 percent: 76 percent by industry 3334, 15 percent by industry 3341, and 7 percent by industries 3353, 3354, and 3355. The remainder was shipped by establishments in other industries. The comparable 1967 percentages are as follows: Total, 99 percent; 78 percent in SIC 3334; 17 percent in SIC 3341; and 4 percent in 1967 SIC 3352.

⁴Included in this industry are refined nonferrous alloys, n.e.c., which are also primary to industry 3341, Secondary Nonferrous Metals. A coverage ratio computed on the basis of including both industries to which nonferrous alloys, n.e.c., are primary would total 61 percent: 27 percent by industry 3339 and 34 percent by industry 3341. The remaining 39 percent was shipped by establishments classified in other industries. The comparable 1967 percentages are as follows: Total, 68 percent; 40 percent in SIC 3339; and 28 percent in SIC 3341. The remaining 32 percent was shipped by establishments classified in other industries.

⁵Included in this industry are refined copper, lead, zinc, aluminum, precious metals, and other nonferrous metals. Each of these product classes is also primary to the comparable primary smelting and refining industry in SIC group 333. A coverage ratio computed on the basis of including both industries to which the classes are primary would total 94 percent: 28 percent by industry 3341 and 66 percent by primary nonferrous smelters and refiners. The remaining 6 percent was shipped by establishments in other industries. The comparable 1967 percentages are as follows: Total, 89 percent; 26 percent in SIC 3341; and 63 percent in primary nonferrous smelters and refiners. The remaining 11 percent was shipped by establishments in other industries.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Primary copper (SIC 3331)	Primary lead (SIC 3332)	Primary zinc (SIC 3333)	Primary aluminum (SIC 3334)	Primary nonferrous metals, n.e.c. (SIC 3339)	Secondary nonferrous metals (SIC 3341)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	2,771.1	460.9	376.4	1,959.8	399.9	2,097.2	(X)
3331-	Primary copper.....	2,847.1	2,336.2	-	-	-	-	433.5	77.4
33311	Copper smelter products.....	1,358.0	1,358.0	-	-	-	-	-	-
33312	Refined copper.....	1,488.8	977.9	-	-	-	-	433.5	77.4
33310	Primary copper, n.s.k.....	.3	.3	-	-	-	-	-	-
3332-	Primary lead.....	(D)	(under 2)	(D)	(under 2)	-	(10-20)	(200-500)	(D)
33321	Lead smelter products.....	(D)	(D)	(D)	-	-	-	(under 2)	(D)
33323	Refined lead.....	461.1	(under 2)	192.2	(under 2)	-	(10-20)	(200-500)	(10-20)
33323									
33343									
3333-	Smelted and refined zinc.....	447.3	(2-5)	(10-20)	312.5	-	(under 2)	115.9	4.5
33331	Zinc residues and other zinc smelter products.....	37.7	(under 2)	(10-20)	(10-20)	-	-	5.6	3.1
33334	Refined zinc.....	409.6	(2-5)	-	(200-500)	-	(under 2)	109.6	-
33344									
3334-	Aluminum ingot and billet.....	2,290.6	-	-	-	1,750.4	4.1	350.9	185.2
33347	Aluminum ingot.....	1,971.2	-	-	-	1,509.7	4.1	(200-500)	(100-200)
33347									
33417	Aluminum extrusion billet.....	319.4	-	-	-	240.7	-	(20-50)	(20-50)
33417									
33553									
33348									
33354									
33418									
3339-	Primary nonferrous metals, n.e.c.....	1,125.6	(200-500)	84.4	17.1	(under 2)	308.5	382.7	81.3
33395	Precious metals.....	527.4	(200-500)	(50-100)	-	-	36.2	173.6	.8
33415									
33397	Other nonferrous metals.....	577.3	13.2	(2-5)	17.1	(under 2)	251.4	209.1	80.5
33416	Primary nonferrous metals, n.s.k.....	20.9	-	-	-	-	20.9	-	-
33390									
33410	Secondary nonferrous metals, n.s.k.....	171.4	(under 2)	-	-	-	(under 2)	168.8	(2-5)
	Other product shipments by 4-digit industry group:								
2813-	Industrial gases.....	(X)	-	-	-	-	(over 2)	-	(X)
2816-	Inorganic pigments.....	(X)	-	-	(10-20)	-	-	(under 2)	(X)
2819-	Industrial inorganic chemicals, n.e.c.....	(X)	19.5	(under 2)	7.4	(2-5)	6.9	(under 2)	(X)
2899-	Chemical preparations, n.e.c.....	(X)	-	-	-	-	(5-10)	(under 2)	(X)
2999-	Petroleum and coal products, n.e.c.....	(X)	-	-	-	(2-5)	-	-	(X)
3312-	Blast furnaces and steel mills.....	(X)	-	-	-	(5-10)	-	-	(X)
3313-	Electrometallurgical products.....	(X)	-	-	-	-	(10-20)	-	(X)
3356-	Nonferrous rolling and drawing, n.e.c.....	(X)	-	(5-10)	-	-	(under 2)	(10-20)	(X)
3369-	Nonferrous foundries, n.e.c.....	(X)	-	-	-	-	(over 2)	(under 2)	(X)
3399-	Primary metal products, n.e.c.....	(X)	(2-5)	-	(2-5)	(10-20)	(under 2)	(under 2)	(X)
3444-	Sheet metalwork.....	(X)	-	-	-	-	-	(over 2)	(X)
3451-	Screw machine products.....	(X)	-	-	-	-	-	(5-10)	(X)
3643-	Current-carrying wire devices.....	(X)	-	-	-	(2-5)	-	-	(X)
93000	Miscellaneous receipts.....	(X)	157.7	18.5	18.9	103.8	34.0	376.4	(X)
	Contract work smelting and refining materials owned by others on a toll basis.....	(X)	8.7	(D)	-	1.2	2.3	10.8	(X)
	All other receipts for work done for others on their own materials.....	(X)	145.2	11.2	(D)	57.5	4.9	98.5	(X)
99980	Sales of scrap and refuse.....	(X)	-	(D)	(D)	5.9	(D)	27.4	(X)
99980	Other miscellaneous receipts, including receipts for repair work.....	(X)	3.8	-	-	1.8	(D)	6.2	(X)
99989	Resales.....	(X)	-	6.3	11.7	37.4	26.1	233.5	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries				
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued					
3333	2816 Inorganic pigments.....	(2-5)	3341	2816 Inorganic pigments.....	(5-10)				
3334	3355 Aluminum rolling and drawing, n.e.c.....	(5-10)		2819 Industrial inorganic chemicals, n.e.c.....	(2-5)				
3339	3313 Electrometallurgical products.....	(2-5)		3351 Copper rolling and drawing.....	(50-100)				
	3351 Copper rolling and drawing.....	(10-20)		3356 Nonferrous rolling and drawing, n.e.c.....	5.1				
	3356 Nonferrous rolling and drawing, n.e.c.....	(50-100)		3361 Aluminum foundries.....	(10-20)				
	3369 Nonferrous foundries, n.e.c.....	(10-20)		3494 Valves and pipe fittings.....	(2-5)				
	3399 Primary metal products, n.e.c.....	(2-5)		3568 Power transmission equipment, n.e.c.....	(2-5)				
				3643 Current-carrying wiring devices.....	(2-5)				

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹ (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight) ⁴
			Total		Shipments to all other companies		Transfers to other plants of same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
			(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(million dollars)		
1972										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3331- --	SMELTED AND REFINED COPPER, TOTAL.....	(X)	(X)	2,847.1	(X)	(D)	(X)	(D)	(X)	(X)
33311 --	Copper Smelter Products.....	(X)	(X)	1,358.0	(X)	633.9	(X)	726.5	(X)	(X)
33311 11	Blister or anode copper.....	1,705.6	(D)	(D)	(D)	(D)	(D)	(D)	380.1	74.8
33311 51	Matte, speiss, flue dust, residues, etc.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)
33312 --	Refined Copper (Cathodes, Wire Bars, Ingots, Shot, Etc.)..... Made by primary copper refiners (industry 3331) Made by secondary refiners (industry 3341) and other industries..... Refined copper, n.s.k.....	(NA)	(X)	1,488.8	(D)	(D)	(D)	(D)	(X)	(D)
33412 --		2,255.5	966.5	977.4	(D)	(D)	(D)	(D)	1,281.0	35.4
33312 13		599.3	515.1	505.2	459.4	457.1	55.7	48.1	(D)	(D)
33412 11		(X)	(X)	5.7	(X)	(NA)	(X)	(NA)	(X)	(X)
33412 31										
33312 00										
33412 00										
33310 00	Primary copper, n.s.k., for establishments with 10 employees or more in 1972.....	(X)	(X)	.3	(X)	(NA)	(X)	(NA)	(X)	(X)
3332- --	PRIMARY LEAD, TOTAL.....	(NA)	(NA)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33321 --	Lead Smelter Products.....	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33321 11	Base bullion.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33321 51	Matte, speiss, etc.....	55.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33323 --	Refined Lead (pig, ingots, shot, etc.)..... Made by primary lead refiners (industry 3332) and other primary refiners..... Made by secondary refiners (industry 3341).... All other industries.....	(NA)	(X)	461.1	(D)	(D)	(D)	(D)	(D)	(D)
33413 --		832.4	671.6	203.5	(D)	(D)	(D)	(D)	(D)	(D)
33323 41		(X)	(X)	257.6	(D)	(D)	(D)	(D)	(D)	(D)
33413 11, 21,33,51, 71,98,00										
3333- --	SMELTED AND REFINED ZINC, TOTAL.....	(NA)	(NA)	447.3	1,326.5	427.4	145.2	12.2	(NA)	(NA)
33331 11	Zinc residues and other zinc smelter products...	502.6	411.7	37.7	(D)	(D)	(D)	(D)	(D)	(D)
33334 --	Refined Zinc (Pig, Ingot, Shot, Etc.)..... Made by primary zinc refiners (industry 3333) and other primary refiners..... Slab, excluding remelt zinc..... Slab, remelt zinc..... Dust.....	1,214.0	1,108.6	409.6	(D)	(D)	(D)	(D)	(D)	47.0
33414 --		930.1	850.2	300.0	(D)	(D)	(D)	(D)	(D)	(D)
33334 21		855.3	760.5	267.1	(D)	(D)	(D)	(D)	(D)	(D)
33334 25		60.8	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33334 55		14.0	(D)	(D)	(D)	(D)	-	-	(D)	(D)
33414 02	Made by secondary refiners (industry 3341).... All other industries..... Unalloyed: Slab, excluding remelt zinc..... Slab, remelt zinc..... Dust.....	265.1	259.4	109.6	259.4	109.6	-	-	(D)	(D)
33414 04										
33414 05										
33414 11										
33414 02										
33414 04										
33414 05										
33414 02		46.8	46.5	20.5	46.5	20.5	-	-	-	-
33414 04		(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
33414 05		(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
33414 11	Zinc-base alloys.....	191.4	188.8	78.3	188.8	78.3	-	-	(D)	(D)
33414 00	Refined zinc, made by secondary refiners, n.s.k.....	(X)	(X)	(D)	(X)	(NA)	(X)	(NA)	(X)	(X)
3334- --	ALUMINUM INGOT AND BILLET, TOTAL.....	7,030.4	4,879.4	2,290.6	2,426.8	1,158.7	2,452.6	1,131.9	(D)	(D)
33347 --	Aluminum Ingot ⁴ Made in primary aluminum industry and other primary nonferrous industries..... Made in aluminum rolling and drawing mills ⁴ (industries 3353, 3354, and 3355)..... Made in secondary nonferrous metals industry (industry 3341)..... All other industries.....	5,912.2	4,164.6	1,971.2	1,983.2	951.6	2,181.4	1,019.6	(D)	(D)
33417 --		3,458.8	3,240.0	1,513.8	1,279.9	586.7	1,960.1	927.1	(D)	(D)
33553 --		1,739.6	253.3	120.5	703.3	373.1	221.3	92.5	-	(D)
33347 11		713.8	671.3	336.9						
33553 11										
33417 11									42.2	1.0

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹ (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)	
			Total		Shipments to all other companies		Transfers to other plants of same company				
			Quantity	Value	Quantity	Value	Quantity	Value			
			(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(million dollars)			
1972											
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)	
3334- --	ALUMINUM INGOT AND BILLET--Continued										
33348 --	Aluminum Extrusion Billet ⁴	1,118.2	714.8	319.4	443.6	207.1	271.2	112.3	(D)	313.5	
33554 --											
33418 --											
33348 11		Made in primary aluminum industry (industry 3334) and other primary nonferrous industries	569.4	542.4	240.7	336.9	155.7	205.5	85.0	(D)	-
33554 11	Made in aluminum rolling and drawing mills ⁴ (industries 3353, 3354, and 3355).....	423.2	101.6	46.6	106.7	51.4	65.7	27.3	53.0	313.5	
33418 11	Made in secondary nonferrous metals industry (industry 3341).....	125.6	70.8	32.1							
	All other industries.....										
		(1,000 troy oz)	(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)	(1,000 troy oz)	
3339- --	PRIMARY NONFERROUS METALS, N.E.C., TOTAL....	(NA)	(NA)	1,125.6	(X)	(D)	(X)	(D)	(X)	(X)	
33395 --	Precious Metals.....	(NA)	(NA)	527.4	(X)	(D)	(X)	(D)	(X)	(X)	
33415 --											
33395 25		Gold.....	(D)	4,058.3	216.6	(D)	(D)	(D)	(D)	(D)	(D)
33415 11		Made in industry 3339 and other primary nonferrous industries.....	3,827.6	2,747.3	169.6	(D)	(D)	(D)	(D)	(D)	(D)
33415 81	Made in industry 3341 and other secondary industries:	(D)	1,311.0	47.0	1,311.0	47.0	-	-	(D)	(D)	
33415 11	Unalloyed.....	623.4	615.9	24.6	615.9	24.6	-	-	(D)	(D)	
33415 81	Alloyed.....	693.2	695.1	22.4	695.1	22.4	-	-	-	(D)	
33395 35	Silver.....	(D)	124,982.4	199.8	124,144.3	198.3	838.1	1.5	304.5	45,400.8	
33415 31		Made in industry 3339 and other primary nonferrous industries.....	126,793.8	93,649.3	155.4	(D)	(D)	(D)	(D)	(D)	(D)
33415 71		Made in industry 3341 and other secondary industries:	(D)	31,333.1	44.4	(D)	(D)	(D)	(D)	(D)	(D)
33415 31		Unalloyed.....	9,810.5	9,421.8	16.7	21,911.3	(D)	(D)	(D)	(D)	(D)
33415 71	Alloyed.....	(D)	21,911.3	27.7	16,909.3	-	-	-	-	(D)	
33395 45	Platinum, including platinum-group metals and alloys.....	(D)	848.8	85.9	(D)	(D)	24.3	3.2	(D)	(D)	
33415 51		Made in industry 3339 and other primary nonferrous industries.....	(D)	42.3	4.4	(D)	(D)	(D)	(D)	(D)	(D)
33415 89		Made in industry 3341 and other secondary industries:	812.9	806.5	81.5	806.5	81.5	-	-	(D)	(D)
33415 51		Unalloyed.....	464.8	455.4	35.5	455.4	35.5	-	-	(D)	(D)
33415 89	Alloyed.....	348.1	351.1	46.0	351.1	46.0	-	-	-	-	
33395 00	Precious metals, n.s.k.....	(X)	(X)	25.1	(X)	(NA)	(X)	(NA)	(X)	(X)	
33415 00											
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)	
33397 --	Other Nonferrous Metals.....	(X)	(X)	577.3	(X)	(NA)	(X)	(NA)	(X)	(X)	
33416 --											
33397 23	Cadmium.....	5.6	4.9	23.4	(D)	(D)	(D)	(D)	(D)	(D)	
33416 51											
33397 23	Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
33416 51	Made in industry 3341 and other secondary industries.....	(D)	(D)	(D)	(D)	(D)	-	-	-	-	
33397 33	Magnesium.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	
33416 61		Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
33416 21		Made in industry 3341 and other secondary industries:	46.8	(D)	(D)	(D)	(D)	-	-	-	-
33397 33		Unalloyed.....	(D)	(D)	(D)	(D)	(D)	-	-	-	-
33416 61	Alloyed.....	(D)	(D)	(D)	(D)	(D)	-	-	-	-	
33416 21	Nickel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	
33397 43		Made in industry 3339 and other primary nonferrous industries.....	2.6	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33416 69		Made in industry 3341 and other secondary industries:	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)
33416 31		Unalloyed.....	-	-	-	-	-	-	-	-	-
33397 43	Alloyed.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹ (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight) *
			Total		Shipments to all other companies		Transfers to other plants of same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
			(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(million dollars)		
1972										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3339- --	PRIMARY NONFERROUS METALS, N.E.C.--Continued									
33397 --	Other Nonferrous Metals--Continued									
33416 --										
33397 63	Tin.....	1.5	1.4	5.3	(D)	(D)	(D)	(D)	(D)	-
33416 71	Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33397 63	Made in industry 3341 and other secondary industries.....	(D)	(D)	(D)	.5	2.0	(D)	(D)	(D)	-
33397 73	Titanium sponge.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33416 81	Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33397 73										
33397 89	Other unalloyed nonferrous metals; including metal bearing furnace residues and other metal products which have to be further refined before sale to customers.....	1,559.0	420.1	74.7	393.8	70.5	26.3	4.2	(D)	(D)
33416 89		Made in industry 3339 and other primary nonferrous industries.....	1,553.4	414.5	65.7	388.2	61.4	26.3	4.2	(D)	(D)
33397 89	Made in industry 3341 and other secondary industries.....	5.6	5.6	9.1	5.6	9.1	-	-	-	-
33397 98	Other nonferrous metal alloys:.....	45.2	42.7	139.5	41.5	105.4	1.2	30.1	(D)	(D)
33416 43	Made in industry 3339 and other primary nonferrous industries.....	37.6	36.1	117.1	34.9	83.0	1.2	30.1	(D)	(D)
33397 98	Made in industry 3341 and other secondary industries.....	7.6	6.6	22.4	6.6	22.4	-	-	(D)	(D)
33397 00	Other nonferrous metals, n.s.k.....	(X)	(X)	35.6	(X)	(NA)	(X)	(NA)	(X)	(X)
33416 00	Primary nonferrous metals, n.s.k., for estab- lishments with 10 employees or more in 1972. (See note.).....	(X)	(X)	18.7	(X)	(NA)	(X)	(NA)	(X)	(X)
33390 00	Primary nonferrous metals, n.s.k., for estab- lishments with less than 10 employees in 1972. (See note.).....	(X)	(X)	2.2	(X)	(NA)	(X)	(NA)	(X)	(X)
3341- --	SECONDARY NONFERROUS METALS, TOTAL.....	(X)	(X)	5,922.2	(D)	(D)	(D)	(D)	(X)	(X)
33412 --	Refined Copper (Pig, Ingots, Shot, Etc.).....	(NA)	(X)	1,488.8	(D)	(D)	(D)	(D)	(X)	(D)
33312 --										
33312 13	Made by primary copper refiners and other primary nonferrous industries ⁶	2,255.5	966.5	977.9	(D)	(D)	(D)	(D)	1,281.0	35.4
33412 11	Made by secondary refiners (industry 3341) and all other industries.....	599.3	515.1	505.2	459.4	457.1	55.7	48.1	(D)	(D)
33412 11	Unalloyed (ingots, shot, etc.).....	228.0	141.5	128.3	459.4	457.1	55.7	48.1	(D)	.4
33412 31	Copper-base alloys.....	371.3	373.6	376.9						
33412 00	Refined copper, n.s.k.....	(X)	(X)	5.7	(X)	(NA)	(X)	(NA)	(X)	(X)
33312 00										
33413 --	Refined Lead (Pig, Ingots, Shot, Etc.).....	(NA)	(X)	461.1	(D)	(D)	(D)	(D)	(D)	(D)
33323 --										
33323 41	Made by primary lead refiners and other primary nonferrous industries.....	832.4	671.6	203.5	(D)	(D)	(D)	(D)	(D)	(D)
33413 11, 21,33,51, 71, and 98	Made by secondary refiners (industry 3341) and all other industries.....	(X)	(X)	257.6	(D)	(D)	(D)	(D)	(D)	(D)
33413 11	Unalloyed (pig, ingots, shot, etc.).....	173.1	167.0	46.3	149.6	41.1	17.4	4.9	(D)	(D)
33413 21	Lead and tin-base alloys.....	506.6	379.0	189.1	(D)	(D)	(D)	(D)	59.8	9.9
33413 33	Antimonial lead.....	327.7	234.6	79.5	}	(D)	(D)	(D)	59.8	9.9
33413 51	Babbitt metal.....	7.3	7.8	9.3						
33413 71	Solder.....	91.7	87.5	79.8						
33413 98	Type metal.....	21.1	17.7	7.9						
33413 00	Other lead and tin-base alloys.....	58.8	31.4	12.6						
33413 00	Refined lead, made by secondary refiners, n.s.k.....	(X)	(X)	22.3	(X)	(NA)	(X)	(NA)	(X)	(X)
33414 --	Refined Zinc (Pig, Ingots, Shot, Etc.) ⁶	1,214.0	1,108.6	409.6	(D)	(D)	(D)	(D)	(D)	47.0
33334 --										
33334 21	Made by primary zinc refiners and other primary nonferrous industries.....	930.1	830.2	300.0	(D)	(D)	(D)	(D)	(D)	(D)
33334 25	Slab, excluding remelt zinc.....	855.3	760.5	267.1	(D)	(D)	(D)	(D)	(D)	(D)
33334 21	Slab, remelt zinc.....	60.8	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33334 55	Dust.....	14.0	(D)	(D)	(D)	(D)	-	-	(D)	(D)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹ (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)	
			Total		Shipments to all other companies		Transfers to other plants of same company				
			Quantity	Value	Quantity	Value	Quantity	Value			
			(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(million dollars)			
1972											
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)	
3341- --	SECONDARY NONFERROUS METALS--Continued										
33414 --	Refined Zinc (Pig, Ingots, Shot, Etc.)--Con.										
33334 --											
33414 02											
33414 04		Made by secondary refiners (industry 3341)									
33414 05		and other secondary nonferrous industries...	265.1	259.4	109.6	259.4	109.6	-	-	(D)	(D)
33414 11											
33414 02	Unalloyed:										
33414 04											
33414 02		Slab, excluding remelt zinc.....	46.8	46.5	20.0	46.5	20.0	-	-	-	-
33414 04		Slab, remelt zinc.....	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
33414 05		Dust.....	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
33414 11	Zinc-base alloys.....	191.4	188.8	78.3	188.8	78.3	-	-	(D)	(D)	
33334 00	Refined zinc, n.s.k.....										
33414 00		(X)	(X)	(D)	(X)	(NA)	(X)	(NA)	(X)	(X)	
33347 --	Aluminum Ingot ⁴	5,912.2	4,164.6	1,971.2	1,983.2	951.6	2,181.4	1,019.6	(D)	(D)	
33417 --											
33553 --											
33347 11	Made in primary aluminum industry and other										
	primary nonferrous industries.....	3,458.8	3,240.0	1,513.8	1,279.9	586.7	1,960.1	927.1	(D)	46.3	
33553 11	Made in aluminum rolling and drawing, n.e.c.,										
	(industries 3353, 3354, and 3355) ⁴	1,739.6	253.3	120.5	703.3	373.1	221.3	92.5	-	(D)	
33417 11	Made in secondary nonferrous metals industry										
	(industry 3341).....	713.8	671.3	336.9							
	All other industries.....								42.2	1.0	
33348 --											
33554 --	Aluminum Extrusion Billet ⁴	1,118.2	714.8	319.4	443.6	207.1	271.2	112.3	(D)	313.5	
33418 --											
33348 11	Made in primary aluminum industry and other										
	primary nonferrous industries.....	569.4	542.4	240.7	336.9	155.7	205.5	85.0	(D)	-	
33554 11	Made in aluminum rolling and drawing, n.e.c.,										
	(industries 3353, 3354, and 3355) ⁴	423.2	101.6	46.6	106.7	51.4	65.7	27.3	53.0	313.5	
33418 11	Made in secondary nonferrous metals industry										
	(industry 3341).....	125.6	70.8	32.1							
	All other industries.....										
		(1,000 troy oz)	(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)	(1,000 troy oz)	
33415 --	Precious Metals.....	(NA)	(NA)	527.4	(D)	(D)	(D)	(D)	(X)	(X)	
33395 --											
33395 25	Gold.....										
33415 11		(D)	4,058.3	216.6	(D)	(D)	(D)	(D)	(D)	(D)	
33415 81											
33395 25	Made in industry 3339 and other primary										
	nonferrous industries.....	3,827.6	2,747.3	169.6	(D)	(D)	(D)	(D)	(D)	(D)	
33415 11	Made in industry 3341 and other secondary										
	industries.....	(D)	1,311.0	47.0	1,165.5	47.1	-	-	(D)	(D)	
33415 81	Unalloyed.....	623.4	615.9	24.6	470.4	24.6	-	-	(D)	(D)	
33415 81	Alloyed.....	(D)	695.1	22.4	695.1	22.5	-	-	-	(D)	
33395 35											
33415 31	Silver.....	(D)	124,982.4	199.8	124,144.3	198.3	838.1	1.5	304.5	45,400.8	
33415 71											
33395 35	Made in industry 3339 and other primary										
	nonferrous industries.....	126,793.8	93,649.3	155.4	(D)	(D)	(D)	(D)	(D)	(D)	
33415 31	Made in industry 3341 and other secondary										
	industries.....	(D)	31,333.1	44.4	(D)	(D)	(D)	(D)	(D)	(D)	
33415 71	Unalloyed.....	9,810.5	9,421.8	16.7	(D)	(D)	(D)	(D)	(D)	(D)	
33415 71	Alloyed.....	(D)	21,911.3	27.7	21,911.3	27.7	-	-	-	(D)	
33395 45											
33415 51	Platinum, including platinum group metals										
33415 89	and alloys.....	(D)	848.8	85.9	(D)	(D)	(D)	(D)	(D)	(D)	
33395 45	Made in industry 3339 and other primary										
	nonferrous industries.....	(D)	42.3	4.4	(D)	(D)	(D)	(D)	(D)	(D)	
33415 51	Made in industry 3341 and other secondary										
	industries.....	812.9	806.5	81.5	806.5	81.5	-	-	(D)	(D)	
33415 89	Unalloyed.....	464.8	455.4	35.5	455.4	35.5	-	-	(D)	(D)	
33415 89	Alloyed.....	348.1	351.1	46.0	351.1	46.0	-	-	-	-	
33415 00											
33395 00	Precious metals, n.s.k.....	(X)	(X)	25.1	(X)	(NA)	(X)	(NA)	(X)	(X)	

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹ (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight) ⁴
			Total		Shipments to all other companies		Transfers to other plants of same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
		(gross weight)	(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(gross weight) ⁴
1972										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3341- --	SECONDARY NONFERROUS METALS--Continued									
33416 --	Other Nonferrous Metals.....	(X)	(X)	577.3	(X)	(NA)	(X)	(NA)	(X)	(X)
33397 --										
33397 23	Cadmium.....	5.6	4.9	23.4	(D)	(D)	(D)	(D)	(D)	(D)
33416 51										
33397 23	Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33416 51	Made in industry 3341 and other secondary industries.....	(D)	(D)	(D)	(D)	(D)	-	-	-	-
33397 33	Magnesium.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
33416 61										
33416 21	Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
33397 33	Made in industry 3341 and other secondary industries.....	46.8	(D)	(D)	(D)	(D)	-	-	-	-
33416 61	Unalloyed.....	(D)	(D)	(D)	(D)	(D)	-	-	-	-
33416 21	Alloyed.....	(D)	(D)	(D)	(D)	(D)	-	-	-	-
33397 43	Nickel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)
33416 69										
33416 31	Made in industry 3339 and other primary nonferrous industries.....	2.6	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33397 43	Made in industry 3341 and other secondary industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)
33416 69	Unalloyed.....	-	-	-	-	-	-	-	-	(D)
33416 31	Alloyed.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)
33397 63	Tin.....	1.5	1.4	5.3	(D)	(D)	(D)	(D)	(D)	-
33416 71										
33397 63	Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33416 71	Made in industry 3341 and other secondary industries.....	(D)	(D)	(D)	.5	2.0	(D)	(D)	(D)	-
33397 73	Titanium Sponge.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33416 81										
33397 73	Made in industry 3339 and other primary nonferrous industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33397 89	Other unalloyed nonferrous metals including metal-bearing furnace residues and other metal products which have to be refined before sale to customers.....	1,559.0	420.1	74.7	393.8	70.5	26.3	4.2	(D)	(D)
33416 89										
33397 89	Made in industry 3339 and other primary nonferrous industries.....	1,537.6	414.4	65.6	388.1	61.4	26.3	4.2	(D)	(D)
33416 89	Made in industry 3341 and other secondary industries.....	5.6	5.6	9.1	5.6	9.1	-	-	-	-
33397 98	Other nonferrous metal alloys.....	45.2	42.7	139.5	41.5	105.4	1.1	30.1	(D)	(D)
33416 43										
33397 98	Made in industry 3339 and other primary nonferrous industries.....	37.6	36.1	117.1	34.9	83.0	1.1	30.1	(D)	(D)
33416 43	Made in industry 3341 and other secondary industries.....	7.6	6.6	22.4	6.6	22.4	-	-	(D)	(D)
33397 00	Other secondary nonferrous metals, n.s.k.....	(X)	(X)	35.6	(X)	(NA)	(X)	(NA)	(X)	(X)
33416 00										
33410 00	Secondary nonferrous metals, n.s.k., for estab- lishments with 10 employees or more in 1972. (See note.).....	(X)	(X)	145.0	(X)	(NA)	(X)	(NA)	(X)	(X)
33410 02	Secondary nonferrous metals, n.s.k., for estab- lishments with less than 10 employees in 1972. (See note.).....	(X)	(X)	26.4	(X)	(NA)	(X)	(NA)	(X)	(X)
1967										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3331- --	SMELTED AND REFINED COPPER, TOTAL.....	(X)	(X)	1,383.3	(X)	(D)	(X)	(D)	(X)	(X)
33311 --	Copper Smelter Products.....	(X)	(X)	547.6	(X)	(D)	(X)	(D)	(X)	(X)
33311 11			1,028.5	721.9	541.4	(D)	(D)	(D)	(D)	395.0	(D)
33311 51	Matte, speïss, flue dust, residues, etc.....	(D)	12.4	6.2	(D)	(D)	(D)	(D)	-	(D)
33312 --	Refined Copper.....	(NA)	(X)	818.4	(D)	(D)	(D)	(D)	(X)	(D)
33412 --										
33312 11	Made by primary copper refiners (industry 33311).	1,307.9	(X)	453.6	(D)	(D)	(D)	(D)	(X)	(X)
33412 11	Made by secondary refiners (industry 33411)									
33412 51	and other industries.....	(X)	(X)	364.8	(D)	(D)	(D)	(D)	(X)	(X)
33312 11	Copper unalloyed.....	1,428.7	790.9	601.1	(D)	(D)	(D)	(D)	780.7	(D)
33412 11										
33312 15	Copper-base alloys.....	299.2	229.4	208.7	(D)	(D)	(D)	(D)	(D)	(D)
33412 31										
33312 00	Refined primary copper, n.s.k.....	(X)	(X)	17.3	(X)	(NA)	(X)	(NA)	(X)	(X)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹ (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)
			Total		Shipments to all other companies		Transfers to other plants of same company			
			Quantity (gross weight)	Value (million dollars)	Quantity (gross weight)	Value (million dollars)	Quantity (gross weight)	Value (million dollars)		
1967										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3332- --	PRIMARY LEAD, TOTAL.....	(NA)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33321 --	Lead Smelter Products.....	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33321 11	Base bullion.....	163.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33321 51	Matte, speiss, etc.....	35.9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33323 --	Refined Lead.....	(NA)	(X)	358.9	(X)	347.7	(X)	11.2	(NA)	(NA)
33413 --	Made by primary lead refiners (industry 3332).....	(NA)	(X)	123.3	(X)	(D)	(X)	(D)	(NA)	(NA)
33323 --	Made by secondary refiners (industry 3341)....	(NA)	(X)	209.6	(X)	(D)	(X)	(D)	(NA)	(NA)
33413 --	All other industries.....	(NA)	(X)	26.0	(X)	(D)	(X)	(D)	(NA)	(NA)
33323 11	Refined unalloyed lead.....	(NA)	416.7	108.9	(D)	(D)	(D)	(D)	(D)	(D)
33413 11	Made in industry 3332.....	288.5	251.3	65.5	(D)	(D)	(D)	(D)	(D)	(D)
33323 11	All other industries.....									
33413 11	Made in industry 3341.....	127.5	165.8	43.4	(D)	(D)	(D)	(D)	(D)	(D)
	Lead- and tin-base alloys.....	(NA)	561.1	242.8	(D)	(D)	(D)	(D)	(D)	(D)
	Made in industry 3332.....	(NA)	561.1	242.8	(D)	(D)	(D)	(D)	(D)	(D)
	Made in industry 3341.....									
	All other industries.....									
33323 31	Antimonial lead.....	282.4	282.0	87.1	(D)	(D)	(D)	(D)	-	(D)
33413 21	Babbitt metal.....	10.2	9.4	9.1	(D)	(D)	(D)	(D)	(D)	(D)
33323 33	Solder.....	101.5	100.0	90.6	(D)	(D)	(D)	(D)	(D)	(D)
33413 33	Type metal.....	146.3	140.5	44.1	(D)	(D)	(D)	(D)	(D)	(D)
33323 51	Other lead- and tin-base alloys.....	30.5	30.4	13.1	(D)	(D)	(D)	(D)	(D)	(D)
33413 51	Refined lead, n.s.k.....	(X)	(X)	7.2	(X)	7.2	(X)	-	(X)	(X)
33323 71										
33413 71										
33323 98										
33413 98										
33323 00										
33413 00										
3333- --	SMELTED AND REFINED ZINC, TOTAL.....	(NA)	1,403.5	339.1	1,313.9	330.4	89.6	8.7	(NA)	(NA)
33331 11	Zinc residues and other zinc smelter products...	262.9	247.7	23.8	184.9	17.8	62.8	6.0	(D)	(D)
33334 --	Refined Zinc.....	1,234.9	1,155.8	315.3	1,129.0	312.6	26.8	2.7	(D)	(D)
33414 --	Made by primary zinc refiners (industry 3333).....	1,073.7	999.6	261.7	1,129.0	312.6	26.8	2.7	(D)	(D)
33334 --	Made by secondary refiners (industry 3341)....	161.2	156.2	53.6						
33414 --	All other industries.....									
	Unalloyed:									
33334 13	Zinc slab, including remelt zinc.....	950.5	880.1	242.3	(D)	(D)	(D)	(D)	(D)	(D)
33414 01	Made in industry 3341.....	34.7	34.8	10.2	(D)	(D)	-	-	(D)	(D)
33334 13	Made in industry 3333.....	915.8	845.3	232.1	(D)	(D)	(D)	(D)	(D)	(D)
33334 15	All other industries.....	43.9	44.6	15.2	44.6	15.2	-	-	-	(D)
33414 05	Dust.....	27.6	28.0	9.7	28.0	9.7	-	-	-	-
33414 05	Made in industry 3341.....	16.3	16.6	5.5	16.6	5.5	-	-	-	(D)
33334 51	Made in industry 3333.....									
33334 61	Zinc-base alloys.....	240.5	231.1	57.8	(D)	(D)	(D)	(D)	(D)	(D)
33414 11	Made in industry 3333.....	141.6	137.7	25.4	(D)	(D)	(D)	(D)	(D)	(D)
33334 61	Made in industry 3341.....	98.9	93.4	32.4	(D)	(D)	(D)	(D)	(D)	3.2
33414 11	All other industries.....									
3334- --	ALUMINUM INGOT AND BILLET, TOTAL.....	5,360.3	4,119.1	1,963.5	2,256.4	1,052.9	1,862.7	900.6	(D)	(D)
33347 --	Aluminum Ingot ⁴	4,498.9	3,513.2	1,682.4	1,854.8	899.4	1,658.4	783.0	27.4	(D)
33417 --	Made in primary aluminum industry (industry 3334).....	2,872.8	2,761.5	1,324.1	1,162.6	579.0	1,598.9	745.1	-	(D)
33553 --	Made in aluminum rolling and drawing mills (industries 3353, 3354, and 3355) ⁴	979.2	88.2	55.4	692.2	320.4	59.5	37.9	27.4	913.4
33347 11	Made in secondary nonferrous metals industry (industry 3341).....	646.9	663.5	302.9						
33553 11	All other industries.....									
33417 11										

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³	Produced and consumed in the same plant in manufacture of other products
			Total		Shipments to all other companies		Transfers to other plants of same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
		(gross weight)	(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(gross weight)
1967										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3334- --	ALUMINUM INGOT AND BILLET--Continued									
33348 --										
33554 --	Aluminum Extrusion Billet ⁴	861.4	605.9	271.1	401.6	153.5	204.3	117.6	(D)	41.8
33418 --										
33348 11	Made in primary aluminum industry (industry 3334).....	475.0	464.0	201.4	301.1	106.2	162.9	95.2	(D)	-
33554 11	Made in aluminum rolling and drawing mills (industries 3353, 3354, and 3355) ⁴	257.1	57.0	30.4	100.5	47.3	41.4	22.4	189.4	41.8
33418 11	Made in secondary nonferrous metals industry (industry 3341).....	129.3	84.9	39.3						
	All other industries.....									
		(1,000 troy oz)	(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)	(1,000 troy oz)
3339- --	PRIMARY NONFERROUS METALS, N.E.C., TOTAL....	(NA)	(NA)	618.5	(D)	(D)	(D)	(D)	(NA)	(NA)
33395 --	Precious metals.....	(NA)	(NA)	282.4	(D)	(D)	(D)	(D)	(NA)	(NA)
33415 --										
	Unalloyed:									
33395 11	Gold.....	1,533.2	1,588.5	55.6	(D)	(D)	(D)	(D)	(D)	265.7
33415 11										
33395 51	Silver.....	(NA)	(NA)	171.1	(D)	(D)	(D)	(D)	(NA)	(NA)
33415 31										
33395 31	Platinum, including platinum-group metals...									
33415 51	Made in industry 3341.....									
	Made in primary nonferrous metals, n.e.c., industry 3339, and other industries.....									
	Alloys:									
33395 61	Silver-base.....	(NA)	(NA)	55.8	(NA)	55.8	-	-	(NA)	(NA)
33415 71										
33395 65	Gold-base.....									
33415 81										
33395 69	Other precious metal, including platinum- group.....									
33415 89										
33415 00	Precious metals, n.s.k.....									
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
33997 --	Other Nonferrous Metals.....	(NA)	(NA)	327.8	(D)	(D)	(D)	(D)	(NA)	(NA)
33416 --										
	Unalloyed:									
33397 21	Cadmium.....	5.3	5.4	19.1	(D)	(D)	(D)	(D)	(D)	(D)
33416 51										
33397 51	Nickel.....	.2	.2	.7	(NA)	.7	-	-	-	-
33416 69										
33397 61	Tin.....	(NA)	(NA)	12.8	(D)	(D)	(D)	(D)	(D)	(D)
33416 71										
33397 71	Titanium sponge.....	(NA)	(NA)	214.6	(D)	(D)	(D)	(D)	(NA)	(NA)
33416 81										
33397 11	Magnesium unalloyed.....									
33416 61										
33397 79	Other unalloyed nonferrous metals including metal-bearing furnace residues and other metal products which have to be further refined before sale to customers.....									
33416 89										
	Alloyed:									
33397 93	Nickel-base alloys.....	9.1	8.4	20.4	(D)	(D)	(D)	(D)	(D)	-
33416 31										
33397 92	Magnesium-base alloys.....	(NA)	(NA)	55.7	(D)	(D)	(D)	(D)	-	-
33416 21										
33397 98	Other nonferrous metal alloys.....									
33416 43										
33397 00	Other nonferrous metals, n.s.k.....	(NA)	(X)	4.6	(X)	4.6	(X)	-	-	-
33416 00										
33390 00	Primary nonferrous metals, n.e.c., n.s.k., for establishments with 10 employees or more in 1967. (See note.).....	(X)	(X)	7.3	(X)	7.3	(X)	-	(X)	(X)
33390 02	Primary nonferrous metals, n.e.c., n.s.k., for establishments with less than 10 employees in 1967. (See note.).....	(X)	(X)	1.0	(X)	1.0	(X)	-	(X)	(X)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)
			Total		Shipments to all other companies		Transfers to other plants of same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
			(gross weight)	(million dollars)	(gross weight)	(million dollars)	(gross weight)	(million dollars)		
1967										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3341- --	SECONDARY NONFERROUS METALS, TOTAL.....	(NA)	(X)	4,134.1	(D)	(D)	(D)	(D)	(X)	(X)
33312 --	Refined Copper.....	(NA)	(X)	818.4	(D)	(D)	(D)	(D)	(X)	(X)
33412 --		Made by primary copper refiners (industry 3331).....	1,307.9	(X)	453.6	(D)	(D)	(D)	(D)	(X)
33312 --	Made by secondary refiners (industry 3341) and other industries.....	(X)	(X)	364.8	(D)	(D)	(D)	(D)	(X)	(X)
33412 --		Copper unalloyed.....	1,028.7	790.9	601.1	(D)	(D)	(D)	(D)	7,801.7	(D)
33312 11	Copper-base alloys.....	299.2	229.4	208.7	(D)	(D)	(D)	(D)	(D)	(D)
33312 15		Refined primary copper, n.s.k.....	(X)	(X)	25.9	(X)	(NA)	(X)	(NA)	(X)	(X)
33412 31	Refined Lead.....	(NA)	(X)	358.9	(X)	347.7	(X)	11.2	(NA)	(NA)
33312 00		Made by primary lead refiners (industry 3332)..	(NA)	(X)	123.3	(X)	(D)	(X)	(D)	(NA)	(NA)
33323 --	Made by secondary refiners (industry 3341)....	(NA)	(X)	209.6	(X)	(D)	(X)	(D)	(NA)	(NA)
33413 --		All other industries.....	(NA)	(X)	26.0	(X)	(D)	(X)	(D)	(NA)
33323 11	Refined unalloyed lead.....	(NA)	417.1	108.9	(D)	(D)	(D)	(D)	(D)	(D)
33413 11		Made in industry 3332.....	288.5	251.3	65.5	(D)	(D)	(D)	(D)	(D)	(D)
33323 11	All other industries.....	127.5	165.8	43.4	(D)	(D)	(D)	(D)	(D)	(D)
33413 11	Made in industry 3341.....	(NA)	561.1	242.8	(D)	(D)	(D)	(D)	(NA)	(NA)
	Lead- and tin-base alloys.....	(NA)	561.1	242.8	(D)	(D)	(D)	(D)	(NA)	(NA)
		Made in industry 3332.....	(NA)	561.1	242.8	(D)	(D)	(D)	(D)	(NA)	(NA)
	Made in industry 3341.....	(NA)	561.1	242.8	(D)	(D)	(D)	(D)	(NA)	(NA)
	All other industries.....	(NA)	561.1	242.8	(D)	(D)	(D)	(D)	(NA)	(NA)
33323 31	Antimonial lead.....	282.4	282.0	87.1	(D)	(D)	(D)	(D)	-	(D)
33413 21		Babbitt metal.....	10.2	9.4	9.1	(D)	(D)	(D)	(D)	(D)	(D)
33323 33	Solder.....	101.5	100.0	90.6	(D)	(D)	(D)	(D)	(D)	(D)
33413 33		Type metal.....	146.3	140.5	44.1	(D)	(D)	(D)	(D)	(D)
33323 51	Other lead and tin-base alloys.....	30.5	30.4	13.1	(D)	(D)	(D)	(D)	(D)	(D)
33413 51		Refined lead, n.s.k.....	(X)	(X)	7.2	(X)	(NA)	(X)	(NA)	(D)	(D)
33323 71										
33413 71										
33323 98										
33413 98										
33323 00										
33413 00										
33334 --	Refined Zinc.....	(NA)	1,155.8	315.3	1,129.0	312.6	26.8	2.7	(D)	(D)
33414 --		Made by primary zinc refiner (industry 3333)...	1,073.7	999.6	261.7	1,129.0	312.6	26.8	2.7	(D)	(D)
33334 --	Made by secondary refiners (industry 3341)....	161.2	156.2	53.5						
33414 --	All other industries.....									
	Zinc, unalloyed:									
33334 13	Zinc slab, including remelt zinc.....	950.5	880.1	242.3	(D)	(D)	(D)	(D)	(D)	(D)
33414 01		Made in industry 3341.....	34.7	34.8	10.2	(D)	(D)	(D)	(D)	(D)	(D)
33414 01	Made in industry 3333.....	915.8	845.3	232.1	(D)	(D)	(D)	(D)	(D)	(D)
33334 13		All other industries.....								
33334 51	Dust.....	43.9	44.6	15.2	44.6	15.2	-	-	-	(D)
33414 05		Made in industry 3341.....	27.6	28.0	9.7	28.0	9.7	-	-	-
33334 51	Made in industry 3333.....	16.3	16.6	5.5	16.6	5.5	-	-	-	(D)
33334 61		Zinc-base alloys.....	240.5	231.1	57.8	(D)	(D)	(D)	(D)	(D)	(D)
33334 61	Made in industry 3333.....	141.6	137.7	25.4	(D)	(D)	(D)	(D)	(D)	(D)
33414 11		Made in industry 3341.....	98.9	93.4	32.4	(D)	(D)	(D)	(D)	(D)
33414 11	All other industries.....									
33347 --	Aluminum Ingot ⁴	4,491.8	3,498.3	1,675.4	1,839.9	892.4	1,658.4	783.0	37.4	(D)
33417 --		Made in primary aluminum industry (industry 3334).....	2,872.8	2,761.5	1,324.1	1,162.6	579.0	1,598.9	745.1	-	(D)
33527 --	Made in aluminum rolling mills (industries 3353, 3354, and 3355) ⁴	972.1	73.3	48.4	677.3	313.4	59.5	37.9	27.4	913.4
33347 11		Made in secondary nonferrous metals industry (industry 3341).....	646.9	663.5							302.9
	All other industries.....									

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹ (gross weight)	Product shipments including interplant transfers ²						Shipments of products made from materials owned by others ³ (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)
			Total		Shipments to all other companies		Transfers to other plants of same company			
			Quantity (gross weight)	Value (million dollars)	Quantity (gross weight)	Value (million dollars)	Quantity (gross weight)	Value (million dollars)		
1967										
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
3341- -- 33348 -- 33528 -- 33418 -- 33348 11	SECONDARY NONFERROUS METALS--Continued									
	Aluminum Extrusion Billet ⁴	861.4	605.9	281.1	401.6	163.5	204.3	117.6	(D)	41.8
	Made in primary aluminum industry (industry 3334).....	475.0	464.0	211.4	301.1	116.2	162.9	95.2	(D)	-
33528 11	Made in aluminum rolling mills (industry 3353, 3354, and 3355) ⁴	257.1	57.0	30.4	100.5	47.3	41.4	22.4	189.4	41.8
33418 11	Made in secondary nonferrous metals industry (industry 3341).....	129.3	84.9	39.3						
	All other industries.....									
		(1,000 troy oz)	(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)		(1,000 troy oz)	(1,000 troy oz)
33395 -- 33415 --	Precious Metals.....	(NA)	(NA)	282.4	(D)	(D)	(D)	(D)	(NA)	(NA)
	Unalloyed:									
33395 11 33415 11	Gold.....	1,533.2	1,588.5	55.6	(D)	(D)	(D)	(D)	(D)	265.7
33395 51 33415 31	Silver.....	(NA)	(NA)	171.1	(D)	(D)	(D)	(D)	(D)	(NA)
33395 31 33415 51	Platinum, including platinum-group metals...									
	Alloys:									
33395 61 33415 71	Silver-base.....	(NA)	(NA)	55.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33395 65 33415 81	Gold-base.....									
33395 69 33415 89	Other precious metal, including platinum- group.....									
33415 00	Precious metals, n.s.k.....									
		(1,000 s. tons)	(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)		(1,000 s. tons)	(1,000 s. tons)
33397 -- 33416 --	Other Primary Nonferrous Metals.....	(NA)	(NA)	327.8	(D)	(D)	(D)	(D)	(NA)	(NA)
	Unalloyed:									
33397 21 33416 51	Cadmium.....	5.3	5.4	19.1	(D)	(D)	(D)	(D)	(D)	(D)
33397 51 33416 69	Nickel.....	.2	.2	.7	(NA)	.7	-	-	-	-
33397 61 33416 71	Tin.....	(NA)	(NA)	12.8	(D)	(D)	(D)	(D)	(D)	(D)
33397 71 33416 81	Titanium sponge.....	(NA)	(NA)	214.6	(D)	(D)	(D)	(D)	(NA)	(NA)
33397 11 33416 61	Magnesium unalloyed.....									
33397 78 33397 89 33416 89	Other nonferrous metals, including metal bearing furnace residues and other metal products which have to be further refined before sale to customers.....									
	Alloyed:									
33397 93 33416 31 33397 98	Nickel-base alloys.....	9.1	8.4	20.4	(D)	(D)	(D)	(D)	(D)	-
33416 43 33397 92 33416 21	Other nonferrous metal alloys.....	(NA)	55.7	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33397 00 33416 00	Magnesium-base alloys.....									
	Other nonferrous metals, n.s.k.....	(NA)	(X)	1.6	(X)	(NA)	(X)	(NA)	(NA)	(NA)
33390 00	Primary nonferrous metals, n.e.c., for companies with 10 employees or more. (See note.).....	(X)	(X)	7.3	(X)	(NA)	(X)	(NA)	(X)	(X)
33390 02	Primary nonferrous metals, n.e.c., n.s.k., for companies with less than 10 employees. (See note.).....	(X)	(X)	1.0	(X)	(NA)	(X)	(NA)	(X)	(X)
33410 00	Secondary nonferrous metals, n.s.k., for estab- lishments with 10 employees or more. (See note.).....	(X)	(X)	50.3	(X)	(NA)	(X)	(NA)	(X)	(X)
33410 02	Secondary nonferrous metals, n.s.k. for estab- lishments with less than 10 employees. (See note.).....	(X)	(X)	16.2	(X)	(NA)	(X)	(NA)	(X)	(X)

See footnotes on next page.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Includes toll production.

²Includes shipments of these products produced on a toll basis by others. Where data are shown separately for the various industries producing these products, such shipments are included in the industry for the establishment owning the material. However, production data are included in the industry of the toll producer.

³Includes shipments to other smelters and refiners, shipments to consumers, and to some nonmanufacturing companies which sell directly to consumers.

⁴Most of the aluminum ingot and billet (alloys) produced by aluminum rolling mills represent duplication of tonnages reported by the Primary Aluminum Industry (3334), in that the metal produced by the rolling mills is made from ingot produced in primary aluminum plants.

⁵Represents cathodes, wire bass, ingots, shot, etc.

⁶Includes all ASTM specification zinc.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COPPER SMELTER PRODUCTS (33311)			REFINED LEAD (33323 AND 33413)		
United States.....	1 358.0	(NA)	United States.....	461.1	358.9
Northeast Region.....	EE	(NA)	Northeast Region.....	99.1	71.4
Middle Atlantic Division.....	EE	(NA)	Middle Atlantic Division.....	GG	GG
New Jersey.....	BB	(NA)	New York.....	FF	22.7
Pennsylvania.....	EE	(NA)	New Jersey.....	GG	28.3
South Region.....	GG	(NA)	North Central Region.....	178.4	165.9
East South Central Division.....	CC	(NA)	East North Central Division.....	GG	91.6
Tennessee.....	CC	(NA)	Ohio.....	FF	14.6
West South Central Division.....	GG	(NA)	Illinois.....	GG	55.3
Texas.....	GG	(NA)	West North Central Division.....	GG	66.3
West Region.....	GG	(NA)	Minnesota.....	CC	BB
Mountain Division.....	1 198.4	(NA)	Missouri.....	GG	FF
Montana.....	GG	(NA)	Nebraska.....	GG	FF
New Mexico.....	GG	(NA)	South Region.....	100.4	57.8
Arizona.....	GG	(NA)	West South Central Division.....	GG	28.1
Utah.....	GG	(NA)	Texas.....	FF	FF
Nevada.....	FF	(NA)	West Region.....	83.2	67.6
Pacific Division.....	GG	(NA)	Mountain Division.....	FF	FF
Washington.....	GG	(NA)	Idaho.....	FF	FF
REFINED COPPER (33312 AND 33412)			ZINC RESIDUES (33331)		
United States.....	1 488.8	818.4	United States.....	37.3	(NA)
Northeast Region.....	293.7	257.1	Northeast Region.....	3.7	(NA)
Middle Atlantic Division.....	293.7	234.5	Middle Atlantic Division.....	3.7	(NA)
New York.....	GG	GG	New Jersey.....	AA	(NA)
New Jersey.....	GG	GG	Pennsylvania.....	AA	(NA)
North Central Region.....	399.2	215.4	North Central Region.....	4.8	(NA)
East North Central Division.....	GG	GG	East North Central Division.....	4.8	(NA)
Illinois.....	GG	128.9	Ohio.....	BB	(NA)
Michigan.....	GG	53.4	South Region.....	EE	(NA)
South Region.....	115.6	87.4	West South Central Division.....	EE	(NA)
South Atlantic Division.....	GG	GG	Oklahoma.....	BB	(NA)
Maryland.....	GG	GG	Texas.....	EE	(NA)
West South Central Division.....	FF	EE	West Region.....	EE	(NA)
Texas.....	FF	EE	Mountain Division.....	EE	(NA)
West Region.....	680.3	258.4	Montana.....	CC	(NA)
Mountain Division.....	GG	GG	New Mexico.....	GG	(NA)
Montana.....	GG	GG	Arizona.....	GG	(NA)
New Mexico.....	GG	FF	Utah.....	GG	(NA)
Arizona.....	GG	FF	Pacific Division.....	GG	(NA)
Utah.....	GG	FF	Washington.....	GG	(NA)
Pacific Division.....	GG	FF	California.....	BB	(NA)
Washington.....	GG	EE			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
REFINED ZINC (33334 AND 33414)			ALUMINUM EXTRUSION BILLET (33348, 33418, AND 33554)--Continued		
United States.....	409.6	315.3	West Region.....	97.7	GG
Northeast Region.....	142.7	88.1	Pacific Division.....	97.6	FF
Middle Atlantic Division.....	GG	GG	Washington.....	EE	FF
Pennsylvania.....	GG	GG	Oregon.....	EE	EE
North Central Region.....	84.1	GG	PRECIOUS METALS (33395 AND 33415)		
East North Central Division.....	GG	EE	United States.....	527.4	282.4
Ohio.....	FF	FF	Northeast Region.....	279.3	149.2
Illinois.....	FF	BB	New England Division.....	CC	14.1
Michigan.....	FF	GG	Massachusetts.....	CC	EE
South Region.....	116.5	GG	Middle Atlantic Division.....	GG	135.1
West South Central Division.....	GG	GG	New York.....	FF	8.7
Oklahoma.....	GG	50.8	New Jersey.....	GG	GG
Texas.....	GG	GG	North Central Region.....	GG	44.9
West Region.....	66.3	47.9	East North Central Division.....	FF	EE
Mountain Division.....	GG	FF	Illinois.....	FF	EE
Montana.....	EE	EE	West North Central Division.....	GG	FF
Idaho.....	FF	FF	Minnesota.....	BB	AA
ALUMINUM INGOT (33347, 33417, AND 33553)			Missouri.....	BB	AA
United States.....	1,975.3	1 675.4	Nebraska.....	GG	FF
Northeast Region.....	162.4	149.8	South Region.....	FF	FF
Middle Atlantic Division.....	(NA)	GG	South Atlantic Division.....	FF	EE
New York.....	(NA)	118.2	Maryland.....	FF	EE
Pennsylvania.....	FF	FF	West South Central Division.....	EE	BB
North Central Region.....	366.5	384.1	Texas.....	EE	BB
East North Central Division.....	GG	367.5	West Region.....	101.6	GG
Indiana.....	GG	127.0	Mountain Division.....	GG	FF
West North Central Division.....	FF	16.7	Montana.....	CC	(NA)
Missouri.....	EE	BB	Idaho.....	EE	EE
South Region.....	933.5	727.8	Utah.....	GG	(NA)
South Atlantic Division.....	167.9	GG	Pacific Division.....	FF	FF
Maryland.....	FF	AA	Washington.....	FF	EE
West Virginia.....	GG	GG	OTHER NONFERROUS METALS (33397 AND 33416)		
North Carolina.....	FF	FF	United States.....	577.3	327.8
East South Central Division.....	333.6	GG	Northeast Region.....	132.4	64.3
Tennessee.....	GG	BB	New England Division.....	AA	8.4
Alabama.....	GG	GG	Rhode Island.....	AA	BB
West South Central Division.....	431.0	316.4	Middle Atlantic Division.....	GG	55.9
Arkansas.....	GG	GG	New York.....	36.1	5.8
Louisiana.....	GG	GG	New Jersey.....	FF	8.6
Texas.....	GG	GG	Pennsylvania.....	63.1	41.4
West Region.....	512.9	413.3	North Central Region.....	91.6	77.6
Mountain Division.....	GG	FF	East North Central Division.....	GG	FF
Montana.....	GG	FF	Ohio.....	24.6	33.6
Pacific Division.....	GG	GG	Indiana.....	FF	3.8
Washington.....	384.4	271.0	Illinois.....	FF	14.8
Oregon.....	FF	GG	Michigan.....	FF	AA
ALUMINUM EXTRUSION BILLET (33348, 33418, AND 33554)			West North Central Division.....	EE	FF
United States.....	315.3	281.1	Nebraska.....	BB	BB
Northeast Region.....	FF	FF	South Region.....	283.1	144.6
Middle Atlantic Division.....	FF	EE	South Atlantic Division.....	GG	7.2
New York.....	EE	EE	Maryland.....	BB	BB
North Central Region.....	FF	FF	West Virginia.....	GG	BB
West North Central Division.....	EE	(NA)	East South Central Division.....	GG	30.8
Missouri.....	EE	(NA)	Tennessee.....	CC	CC
South Region.....	159.6	GG	Alabama.....	AA	CC
South Atlantic Division.....	FF	EE	West South Central Division.....	GG	106.6
Maryland.....	EE	(NA)	Oklahoma.....	CC	CC
North Carolina.....	EE	(NA)	Texas.....	GG	100.8
East South Central Division.....	EE	FF	West Region.....	70.2	41.4
Tennessee.....	CC	FF	Mountain Division.....	FF	EE
West South Central Division.....	107.7	GG	Montana.....	BB	(NA)
Arkansas.....	FF	FF	Idaho.....	BB	BB
Louisiana.....	GG	GG	Colorado.....	BB	CC
Texas.....	EE	FF	Utah.....	CC	AA
			Nevada.....	AA	AA
			Pacific Division.....	FF	FF
			Oregon.....	FF	FF

See footnotes on next page.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 6B)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958	
3331	Primary copper ²	2,336.2	2,005.1	2,530.5	2,146.4	1,418.8	1,018.5	1,049.9	682.1	
33311	Copper smelter products.....	1,358.0	1,205.7	1,570.4	1,240.2	853.9	547.6	628.5	361.6	
33312	Refined primary copper.....	977.9	789.8	959.7	906.2	564.5	453.6	421.4	320.5	
33310	Primary copper, n.s.k.....	.3	9.6	.4	-	.4	17.3	-	-	
3332	Primary lead ²	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
33321	Lead smelter products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
33323	Refined primary lead.....	203.5	157.6	187.3	189.7	144.0	123.3	74.5	104.8	
33320	Primary lead, n.s.k.....	(³)	-	-	(³)	(³)	(³)	-	(³)	
3333	Primary zinc ²	337.3	336.2	325.3	337.6	287.4	285.5	265.1	232.5	
33331	Zinc residues and other zinc smelter products.....	37.3	33.3	38.7	39.5	29.9	23.8	34.8	25.8	
33334	Refined primary zinc.....	300.0	302.9	286.6	298.1	257.5	261.7	230.3	206.7	
33330	Primary zinc, n.s.k.....	(³)	-	-	(³)	(³)	(³)	-	(³)	
3334	Primary aluminum ²	1,754.5	1,546.4	1,665.9	1,723.7	1,625.1	1,535.5	1,069.6	1,057.8	
33347	Aluminum ingot, produced in primary aluminum reduction plants.....	1,513.8	1,315.9	1,402.6	1,492.2	1,380.8	1,324.1	946.8	1,057.8	
33348	Aluminum extrusion billet produced in primary aluminum reduction plants.....	240.7	230.5	263.3	231.5	244.3	211.4	122.8		
33340	Primary aluminum, n.s.k.....	(³)	-	-	(³)	(³)	(³)	-		
3339	Primary nonferrous metals, n.e.c. ²	747.6	704.7	711.4	715.7	612.3	422.1	439.4	(NA)	
33395	Precious metals.....	527.4	411.4	422.5	482.1	413.8	282.4	246.4	198.6	
33415										
33397	Other primary nonferrous metals, including magnesium.....	577.3	576.9	544.9	472.9	424.6	327.8	193.0	163.3	
33416										
33390	Primary nonferrous metals, n.e.c., n.s.k.....	³ 20.9	-	-	³ 15.1	³ 14.4	³ 8.3	-	³ .8	
3341	Secondary nonferrous metals ²	1,749.2	1,466.7	1,582.1	1,546.9	1,369.3	1,243.3	1,190.3	(NA)	
33412	Secondary copper (pig, ingot, shot, etc.).....	510.9	411.5	505.2	523.6	415.8	364.8	247.2	159.2	
33413	Secondary lead (pig, ingot, shot, etc.).....	257.6	241.5	281.4	247.3	226.1	235.6	191.4	176.1	
33414	Secondary zinc (pig, ingot, shot, etc.).....	109.6	65.6	61.6	39.1	32.3	53.6	43.5	206.7	
33415	Precious metals produced at secondary refineries.....	527.4	411.4	422.5	482.1	413.8	282.4	246.4	198.6	
33395										
33416	Other secondary nonferrous metals.....	577.3	576.9	544.9	472.9	424.6	327.8	193.0	163.3	
33397										
33417	Aluminum ingot, produced by secondary smelters.....	461.5	353.3	364.3	355.2	334.4	289.6	230.7	1,057.8	
33353										
33418	Aluminum extrusion billet produced by secondary smelters...	74.6	55.2	52.1	52.3	49.5	36.8	13.9		
33354										
33410	Secondary nonferrous metals, n.s.k.....	171.4	(56.0)	(61.6)	75.0	(70.7)	66.5	24.2	22.2	
Product Classes Primary to Two Industries or More (The share from each industry is shown in addition to the total for all industries)										
Refined copper (cathodes, wire bars, ingots, shot, etc.), total for all industries.....										
33312	Refined copper, made by primary copper refiners (industry 3331).....	1,488.8	1,210.9	1,465.3	1,429.8	980.7	835.7	668.6	479.7	
33412	Refined copper, made by secondary refiners (industry 3341) and other industries.....	977.9	789.8	959.7	906.2	564.5	453.6	421.4	320.5	
Refined lead (pig, ingots, shots, etc.), total for all industries.....										
33323	Refined lead made by primary lead refiners (industry 3332)...	461.1	399.1	468.7	437.0	370.1	358.9	265.9	280.9	
33413	Refined lead made by secondary refiners (industry 3341) and other industries.....	203.5	157.6	187.3	189.7	144.0	123.3	74.5	104.8	
Refined zinc (pig, ingot, shot, etc.), total for all industries.....										
33334	Refined zinc made by primary zinc refiners (industry 3333)...	409.6	368.5	348.2	337.2	289.8	315.3	273.8	206.7	
33414	Refined zinc made by secondary refiners (industry 3341)....	300.0	302.9	286.6	298.1	257.5	261.7	230.3	206.7	
Refined zinc made by secondary refiners (industry 3341)....										
33414	Refined zinc made by secondary refiners (industry 3341)....	109.6	65.6	61.6	39.1	32.3	53.6	43.5		

See footnotes at end of table.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972—Continued

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
	Product Classes Primary to Two Industries or More--Continued (The share from each industry is shown in addition to the total for all industries)								
	Aluminum ingot, total for all industries.....	1,975.3	1,669.2	1,766.9	1,847.4	1,714.9	1,613.7	1,177.5	(NA)
33347	Aluminum ingot made in Primary Aluminum Industry and other primary nonferrous industries.....	1,513.8	1,315.9	1,402.6	1,492.2	1,380.8	1,324.1	946.8	(NA)
33553	Aluminum ingot made in aluminum rolling and drawing mills (industries 3353, 3354, and 3355).....	120.5	353.3	364.3	355.2	334.4	289.6	230.7	(NA)
33417	Aluminum ingot made in Secondary Nonferrous Metals Industry and all other industries.....	341.0							
	Aluminum extrusion billet, total for all industries.....	315.3	285.7	315.4	283.8	293.8	248.2	136.7	(NA)
33348	Aluminum extrusion billet made in Primary Aluminum Industry and other primary nonferrous industries.....	240.7	230.5	263.3	231.5	244.3	211.4	122.8	(NA)
33554	Aluminum extrusion billet made in aluminum rolling and drawing mills (industries 3353, 3354, and 3355).....	46.6	55.2	52.1	52.3	49.5	36.8	13.9	(NA)
33418	Aluminum extrusion billet made in secondary nonferrous metals (industry 3341 and all other industries).....	28.0							
	Precious metals, total for all industries.....	527.4	411.4	422.5	482.1	413.8	282.4	246.4	198.6
33395	Precious metals, made in primary nonferrous metals, n.e.c. (industry 3339).....	527.4	411.4	422.5	482.1	413.8	282.4	246.4	198.6
33415	Precious metals, made in secondary nonferrous metals (industry 3341 and all other industries).....								
	Other primary nonferrous metals, total for all industries....	577.3	576.9	544.9	472.9	424.6	327.8	193.0	163.3
33397	Made in primary nonferrous metals, including magnesium, smelted or refined (industry 3339).....	577.3	576.9	544.9	472.9	424.6	327.8	193.0	163.3
33416	Made in secondary nonferrous metals (industry 3341 and all other industries).....								

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Some or all of the products primary to this industry are also primary to one other industry or more. The 1-digit product-group totals exclude the values produced by the other primary industries, and, therefore, are not comparable to product-group (4-digits) and product-class (5 digits) totals shown in table 6A and table 6B, respectively.

³Unspecified amount of copper, lead, aluminum, and other primary nonferrous metals are included in n.s.k. product code 33390.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3331.--PRIMARY COPPER ¹					
	Materials, containers, and supplies, total ²		(X)	2,220.0	(X)	904.8
102100	Copper:					
	Ores, concentrates and precipitates.....	Gross weight				
333121	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.).	1,000 s. tons	5,889.6	1,189.2	3,601.5	485.9
333111	Blister or anode copper ³	1,000 s. tons	809.3	889.0	435.7	341.7
999812	Copper and copper-base alloy scrap (purchased scrap only).....	do.....	37.8	35.8		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	106.0	(X)	77.2

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3332.--PRIMARY LEAD ¹					
	Materials, containers, and supplies, total ²		(X)	347.9	(X)	262.6
103101	Lead:					
	Ores and concentrates.....	Gross weight				
		1,000 s. tons	1,159.8	202.8	1,002.6	152.8
333233	Refined unalloyed lead.....	1,000 s. tons.	(NA)	125.8		
999813	Lead and lead-base alloy scrap.....	..do.....			(X)	109.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	19.3		
	INDUSTRY 3333.--PRIMARY ZINC ¹					
	Materials, containers, and supplies, total.....		(X)	223.9	(X)	189.1
103103	Zinc:					
	Ores and concentrates.....	Gross weight				
		1,000 s. tons	1,400.0	142.5	1,757.3	147.5
333341	Refined unalloyed zinc.....	1,000 s. tons.	99.4	34.1	(⁴)	(⁴)
999814	Zinc and zinc-base alloy scrap, including drosses and skimmings (purchased scrap only).....	..do.....	88.3	14.6	124.1	15.9
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	32.7	(X)	25.7
	INDUSTRY 3334.--PRIMARY ALUMINUM ¹					
	Materials, containers, and supplies, total.....		(X)	785.1	(X)	637.4
281951	Alumina.....	Gross weight				
		1,000 s. tons.	7,942.2	500.4	5,692.5	365.6
999812	Copper and copper-base alloy scrap (purchased scrap only).....	1,000 s. tons.	2.5	2.5		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	282.2	(X)	271.8
	INDUSTRY 3341.--SECONDARY NONFERROUS METALS ¹					
	Materials, containers, and supplies, total.....		(X)	1,406.9	(X)	1,012.9
333471	Aluminum ingot.....	Short tons....	43.9	18.1	51.3	19.8
	Aluminum and aluminum-base alloy scrap (purchased scrap only):					
999809	From other establishments of the same company.....	..do.....	202.5	64.0	317.1	91.8
999810	From all other sources.....	..do.....	619.9	161.5	301.7	88.8
333121	Copper:					
	Refined unalloyed copper (cathodes, ingot, cakes, slabs, etc.)..	..do.....	20.6	18.1	23.3	15.2
999812	Copper and copper-base alloy scrap (purchased scrap only).....	..do.....	447.3	351.2	417.5	256.6
333233	Lead:					
	Refined unalloyed lead.....	..do.....	25.3	7.3	50.7	13.1
999813	Lead and lead-base alloy scrap (purchased scrap only).....	..do.....	418.4	89.1	530.2	109.2
333341	Zinc:					
	Refined unalloyed zinc.....	..do.....	73.3	26.2	70.0	19.6
999814	Zinc and zinc-base alloy scrap (purchased scrap only).....	..do.....	119.7	26.8	99.5	17.3
333976	Tin:					
	Refined unalloyed tin.....	..do.....	12.3	43.0		
999815	Tin plate scrap (including shredded steel can scrap).....	..do.....	16.4	10.5	40.0	46.5
970099	All other items, components, parts, containers, and supplies consumed.....		(X)	431.6	(X)	230.8
976000	Materials, parts, components, and supplies, n.s.k. ⁵		(X)	159.5	(X)	104.2

(X) Not applicable. (NA) Not available.

¹Establishments were instructed to include in their reports the quantity and cost of purchased materials which they processed or furnished to others for toll processing, but to exclude materials processed on a toll basis for others. Accordingly, the data shown in this table exclude considerable quantities of materials consumed by establishments in this industry in the production of products shown in table 6A.

²The cost of materials for this industry includes extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments in the same industry.

³Excludes materials consumed by establishments producing copper by leaching or from Lake Superior ores as no distinct blister stage exists in the production at these establishments.

⁴Included with material code 970099, "All other materials and components, parts, containers, and supplies consumed," to avoid disclosing figures for individual companies.

⁵This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3331.--PRIMARY COPPER					
	Purchased fuels and electric energy.....		(X)	45.5	(X)	21.6
	Purchased fuels, total.....		(X)	32.8	(X)	14.9
121005	Coal.....	1,000 s. tons....	182.2	2.3	159.7	1.5
331212	Coke.....	.....do.....	38.4	1.9	12.8	.3
	Fuel oil, total.....	1,000 bbl (42 gal)	2,266.2	10.2	1,574.9	3.6
291141	Distillate.....	.....do.....	600.7	2.7	120.9	.5
291151	Residual.....	.....do.....	1,665.5	7.5	1,454.0	3.1
131300	Natural gas.....	Billion ft ³	43.6	16.7	26.3	8.7
960011	Other fuels.....		(X)	1.1	(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.7	(X)	.6
960012	Purchased electric energy.....	Million kWh.....	1,355.1	12.7	859.8	6.6
	Quantity of electric energy generated less quantity sold....	.....do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	21.0	-	13.1	-
	INDUSTRY 3332.--PRIMARY LEAD					
	Purchased fuels and electric energy.....		(X)	12.9	(X)	7.1
	Purchased fuels, total.....		(X)	11.0	(X)	6.0
121005	Coal.....	1,000 s. tons....	71.3	1.0	(D)	(D)
331212	Coke.....	.....do.....	232.9	7.2	153.9	3.6
	Fuel oil, total.....	1,000 bbl (42 gal)	27.1	.1	33.6	(D)
291141	Distillate.....	.....do.....	23.8	.1	(D)	(D)
291151	Residual.....	.....do.....	3.3	(Z)	(D)	(D)
131300	Natural gas.....	Billion ft ³	4.4	1.9	3.2	1.3
960011	Other fuels.....		(X)	.6	(X)	.2
975000	Fuels, n.s.k.....		(X)	.2	(X)	.1
960012	Purchased electric energy.....	Million kWh.....	212.7	1.9	113.5	1.1
	Quantity of electric energy generated less quantity sold....	.....do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.1	-	2.9	-
	INDUSTRY 3333.--PRIMARY ZINC					
	Purchased fuels and electric energy.....		(X)	25.0	(X)	22.9
	Purchased fuels, total.....		(X)	17.1	(X)	14.4
121005	Coal.....	1,000 s. tons....	592.7	6.0	678.6	5.1
331212	Coke.....	.....do.....	208.1	4.5	197.4	2.4
	Fuel oil, total.....	1,000 bbl (42 gal)	9.4	.1	(D)	(D)
291141	Distillate.....	.....do.....	9.4	.1	(D)	(D)
291151	Residual.....	.....do.....	-	-	-	-
131300	Natural gas.....	Billion ft ³	20.2	6.3	27.3	6.8
960011	Other fuels.....		(X)	.1	(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.1	(X)	.1
960012	Purchased electric energy.....	Million kWh.....	1,547.1	7.9	1,493.0	8.5
	Quantity of electric energy generated less quantity sold....	.....do.....	824.6	-	818.7	-
	Total energy used for heat and power.....	Bil. kWh equiv....	13.9	-	17.3	-
	INDUSTRY 3334.--PRIMARY ALUMINUM					
	Purchased fuels and electric energy.....		(X)	216.8	(X)	176.8
	Purchased fuels, total.....		(X)	35.0	(X)	33.2
121005	Coal.....	1,000 s. tons....	603.2	6.2	(D)	(D)
331212	Coke.....	.....do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	166.6	.8	142.9	.5
291141	Distillate.....	.....do.....	156.0	.7	36.2	.2
291151	Residual.....	.....do.....	10.6	.1	106.7	.3
131300	Natural gas.....	Billion ft ³	120.8	27.0	130.8	26.7
960011	Other fuels.....		(X)	.6	(X)	.4
975000	Fuels, n.s.k.....		(X)	.4	(X)	(Z)
960012	Purchased electric energy.....	Million kWh.....	42,711.6	181.8	41,956.9	143.6
	Quantity of electric energy generated less quantity sold....	.....do.....	10,976.3	-	11,648.0	-
	Total energy used for heat and power.....	Bil. kWh equiv....	84.6	-	108.3	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3339.--PRIMARY NONFERROUS METALS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	19.8	(X)	15.6
	Purchased fuels, total.....		(X)	4.1	(X)	4.3
121005	Coal.....	1,000 s. tons....	3.2	(Z)	(D)	(D)
331212	Coke.....	...do.....	4.2	.2	(D)	(D)
	Fuel oil, total.....	1,000 bbl (42 gal)	159.4	.7	104.4	.5
291141	Distillate.....	...do.....	119.4	.5	(D)	(D)
291151	Residual.....	...do.....	40.0	.2	(D)	(D)
131300	Natural gas.....	Billion ft ³	10.0	2.9	8.3	3.3
960011	Other fuels.....		(X)	.3	(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(Z)
960012	Purchased electric energy.....	Million kWh.....	3,195.9	15.7	2,492.5	11.3
	Quantity of electric energy generated less quantity sold....	...do.....	-	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	6.7	-	5.3	-
	INDUSTRY 3341.--SECONDARY NONFERROUS METALS					
	Purchased fuels and electric energy.....		(X)	22.6	(X)	17.4
	Purchased fuels, total.....		(X)	15.5	(X)	12.7
121005	Coal.....	1,000 s. tons....	.3	(Z)	1.7	(Z)
331212	Coke.....	...do.....	(S)	1.3	19.6	.6
	Fuel oil, total.....	1,000 bbl (42 gal)	579.4	2.6	575.0	2.0
291141	Distillate.....	...do.....	434.3	2.0	343.6	1.3
291151	Residual.....	...do.....	145.1	.6	227.0	.7
131300	Natural gas.....	Billion ft ³	14.0	7.7	11.7	5.9
960011	Other fuels.....		(X)	1.4	(X)	.6
975000	Fuels, n.s.k.....		(X)	2.5	(X)	3.6
960012	Purchased electric energy.....	Million kWh.....	494.0	7.1	366.1	4.7
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	8.0	-	5.1	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown.

Nonferrous Metal Mills and Miscellaneous Primary Metal Products

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EXPLANATORY TEXT

NONFERROUS METAL MILLS AND MISCELLANEOUS PRIMARY METAL PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3351—Rolling, Drawing, and Extruding of Copper*
- 3353—Aluminum Sheet, Plate, and Foil
- 3354—Aluminum Extruded Products
- 3355—Aluminum Rolling and Drawing, N.E.C.
- 3356—Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum*
- 3357—Drawing and Insulating of Nonferrous Wire*
- 3398—Metal Heat Treating
- 3399—Primary Metal Products, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3351.—COPPER ROLLING AND DRAWING (Short Title)

This industry comprises establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper base alloy basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in

industry 3341 (Secondary Smelting and Refining of Nonferrous Metals).

This industry includes a variety of operations ranging from rod, wire, tube, and flat product mills to machine shop and fabricating activities. Accordingly, in order to provide a measure of the relative importance of these departments, data were collected on man-hours worked and production-worker wages paid for each of several departments.

Also, based on the data reported for these various departmental operations, it was possible to further classify the establishments of this industry into two "subindustries"; i.e., establishments with casting facilities and establishments without casting facilities.

Separate data are shown for these subindustries in tables 1A, 2, 4, and 5A. For a detailed list of products of industry 3351, refer to table 6A, product codes 33511 11 to 33515 38.

The 1972 definition of this industry is the same as that used in the 1967 classification system.

Value of shipments and other receipts of the Copper Rolling and Drawing Industry in 1972 totaled \$3,097 million. This included shipments of copper rolling and drawing (primary products) valued at \$2,630 million, shipments of other products (secondary products) valued at \$339 million, and miscellaneous receipts (mainly cost of resales) of \$128 million.

Shipments of copper rolling and drawing (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of industry 3341, Secondary Nonferrous Metals, (\$50 to \$100 million).

Shipments of copper rolling and drawing (primary products) from establishments classified in industry 3351 in 1972 represented 93 percent (coverage ratio) of these products valued at \$2,825 million shipped by all industries. In 1967, the coverage ratio was also 93 percent. Other industries shipping copper rolling and drawing consisted mainly of industry 3357, Nonferrous Wire Drawing and Insulating, (\$124 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3351, these establishments accounted for less than 1 percent of value of shipments.

*Note that the "short title" for this industry is used throughout the report.

INDUSTRY 3353.—ALUMINUM SHEET, PLATE, AND FOIL

This industry comprises establishments primarily engaged in flat rolling aluminum and aluminum base alloy basic shapes such as sheet, plate, and foil, including establishments producing welded tube. Also included are establishments primarily producing similar products by continuous casting.

Companies with establishments classified in this industry were queried as to whether or not the company also operated aluminum reduction facilities. Based on this inquiry, it was possible to further classify the establishments into two "subindustries"; i.e., establishments with melting facilities and establishments without melting facilities.

Separate data are shown for the subindustries of this industry in tables 1A, 4, and 5A. For a detailed list of products of industry 3353, refer to table 6A, product codes 33531 13 to 33534 55.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual and a new SIC number and title have been assigned. Industry 3352, Rolling, Drawing, and Extruding of Aluminum, was split into three industries: 3353, Aluminum Sheet, Plate, and Foil; industry 3354, Aluminum Extruded Products; and industry 3355, Aluminum Rolling and Drawing, N.E.C.

Value of shipments and other receipts of the Aluminum Sheet, Plate, and Foil Industry in 1972 totaled \$2,688 million. This included shipments of aluminum sheet, plate, and foil (primary products) valued at \$2,215 million, shipments of other products (secondary products) valued at \$390 million, and miscellaneous receipts (mainly cost of resales) of \$84 million.

Shipments of aluminum sheet, plate, and foil (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of industry 3497, Metal Foil and Leaf, (\$169 million).

Shipments of aluminum sheet, plate, and foil (primary products) from establishments classified in industry 3353 in 1972 represented 99 percent (coverage ratio) of these products valued at \$2,238 million shipped by all industries. Other industries shipping aluminum sheet, plate, and foil consisted mainly of industry 3354, Aluminum Extruded Products, (\$10 to \$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed

from industry averages. For industry 3353, these establishments accounted for 0 percent of value of shipments.

INDUSTRY 3354.—ALUMINUM EXTRUDED PRODUCTS

This industry comprises establishments primarily engaged in extruding aluminum and aluminum base alloy basic shapes such as rod and bar, pipe and tube, and tube blooms, including establishments producing tube by drawing.

Companies with establishments classified in this industry were queried as to whether or not the company also operated aluminum reduction facilities. Based on this inquiry, it was possible to further classify the establishments into two "subindustries"; establishments with melting facilities and establishments without melting facilities.

Separate data are shown for the subindustries of this industry in tables 1A, 4, and 5A. For a detailed list of products of industry 3354, refer to table 6A, product codes 33541 15 to 33542 53.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual and a new SIC number and title have been assigned. Industry 3352, Rolling, Drawing, and Extruding of Aluminum, was split into three industries: 3353, Aluminum Sheet, Plate, and Foil; industry 3354, Aluminum Extruded Products; and industry 3355, Aluminum Rolling and Drawing, N.E.C.

Value of shipments and other receipts of the Aluminum Extruded Products Industry in 1972 totaled \$1,078 million. This included shipments of aluminum extruded products (primary products) valued at \$903 million, shipments of other products (secondary products) valued at \$149 million, and miscellaneous receipts of \$27 million.

Shipments of aluminum extruded products (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of industry 3442, Metal Doors, Sash, and Trim, (\$40 million).

Shipments of aluminum extruded products (primary products) from establishments classified in industry 3354 in 1972 represented 88 percent (coverage ratio) of these products valued at \$1,026 million shipped by all industries. Other industries shipping aluminum extruded products consisted mainly of industry 3353, Aluminum Sheet, Plate, and Foil; and industry 3355, Aluminum Rolling and Drawing, N.E.C., (\$10 to \$20 million each).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and

sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3354, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3355.—ALUMINUM ROLLING AND DRAWING, N.E.C.

This industry comprises establishments primarily engaged in rolling, drawing, and other operations resulting in the production of aluminum ingot, including extrusion ingot, and aluminum and aluminum base alloy basic shapes, not elsewhere classified, such as rolled and continuous cast rod and bar. Establishments primarily engaged in producing aluminum powder, flake, and paste are classified in industry 3399, and those producing aluminum wire and cable from purchased wire bars, rods, or wire are classified in industry 3357.

Companies with establishments classified in industry 3355 were queried as to whether or not the company also operated aluminum reduction facilities. Based on this inquiry, it was possible to further classify the establishments into two "subindustries"; i.e., establishments with melting facilities and establishments without melting facilities. Subindustry data were suppressed, however, to avoid disclosure for individual companies. For a detailed list of products of industry 3355, refer to table 6A, product codes 33551 11 to 33554 11.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual and a new SIC number and title have been assigned. Industry 3352, Rolling, Drawing, and Extruding of Aluminum, was split into three industries: 3353, Aluminum Sheet, Plate, and Foil; industry 3354, Aluminum Extruded Products; and industry 3355, Aluminum Rolling and Drawing, N.E.C.

Value of shipments and other receipts of the Aluminum Rolling and Drawing, N.E.C., Industry in 1972 totaled \$343 million. This included shipments of aluminum rolling and drawing, n.e.c., (primary products) valued at \$287 million, shipments of other products (secondary products) valued at \$46 million, and miscellaneous receipts of \$11 million.

Shipments of aluminum rolling and drawing, n.e.c., (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of industry 3354, Aluminum Extruded Products, (\$10 to \$20 million).

Shipments of aluminum rolling and drawing, n.e.c., (primary products) from establishments classified in industry 3355 in 1972 represented 42 percent (coverage ratio) of these products valued at \$687 million shipped by all industries. Other industries shipping aluminum rolling and drawing, n.e.c.,

consisted mainly of industry 3334, Primary Aluminum, (\$50 to \$100 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3355, these establishments accounted for 0 percent of value of shipments.

INDUSTRY 3356.—NONFERROUS ROLLING AND DRAWING, N.E.C. (Short Title)

This industry comprises establishments primarily engaged in rolling, drawing, and extruding nonferrous metals other than copper (industry 3351) and aluminum (industries 3353, 3354, and 3355). The products of this industry are produced in the form of basic shapes such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in industry 3341 (Secondary Smelting and Refining of Nonferrous Metals); in manufacturing gold, silver, tin, and other foils except aluminum, in industry 3497 (Metal Foil and Leaf); and aluminum foil in industry 3353.

For a detailed list of products of industry 3356, refer to table 6A, product codes 33561 61 to 33569 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system.

Value of shipments and other receipts of the Nonferrous Rolling and Drawing, N.E.C., Industry in 1972 totaled \$1,245 million. This included shipments of nonferrous rolling and drawing, n.e.c., (primary products) valued at \$990 million, shipments of other products (secondary products) valued at \$192 million, and miscellaneous receipts (mainly cost of resales) of \$63 million.

Shipments of nonferrous rolling and drawing, n.e.c., (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent. Secondary products shipped by this industry in 1972 consisted mainly of industry 3339, Primary Nonferrous Metals, N.E.C., (\$50 to \$100 million).

Shipments of nonferrous rolling and drawing, n.e.c., (primary products) from establishments classified in industry 3356 in 1972 represented 87 percent (coverage ratio) of these products valued at \$1,135 million shipped by all industries. In 1967, the coverage ratio was 84 percent. Other industries shipping nonferrous rolling and drawing, n.e.c., consisted

mainly of industry 3357, Nonferrous Wiredrawing and Insulating, (\$40 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3356, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3357.—NONFERROUS WIREDRAWING AND INSULATING (Short Title)

This industry comprises establishments primarily engaged in drawing, drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods, or wire.

Based on the data reported for various departmental operations, it was possible to classify the establishments into four "subindustries"; i.e., establishments with wiredrawing department and rod mill, establishments with wiredrawing department with neither a rod mill nor an insulating department, establishments with wiredrawing and insulating departments but without rod mill, and establishments without a wiredrawing department.

The subindustry data shown in tables 1A, 4, and 5A, are based on this system of classification. For a detailed list of products of industry 3357, refer to table 6A, product codes 33571 11 to 33579 00.

The 1972 definition of this industry is the same as that used in the 1967 classification system.

Value of shipments and other receipts of the Nonferrous Wiredrawing and Insulating Industry in 1972 totaled \$4,411 million. This included shipments of nonferrous wiredrawing and insulating (primary products) valued at \$4,002 million, shipments of other products (secondary products) valued at \$254 million, and miscellaneous receipts of \$155 million.

Shipments of nonferrous wiredrawing and insulating (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of industry 3661, Telephone and Telegraph Apparatus (\$20 to \$50 million).

Shipments of nonferrous wiredrawing and insulating (primary products) from establishments classified in industry 3357 in 1972 represented 89 percent (coverage ratio) of these products valued at \$4,500 million shipped by all industries. In 1967, the coverage ratio was also 89 percent. Other industries

shipping nonferrous wiredrawing and insulating consisted mainly of industry 3341, Secondary Nonferrous Metals, and industry 3643, Current-Carrying Wiring Devices (\$50 to \$100 million each).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3357, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3398.—METAL HEAT TREATING

This industry comprises establishments primarily engaged in heat treating of metal for the trade. For a detailed list of products of industry 3398, refer to table 6A, product code 33980 11.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual and a new SIC number and title have been assigned. Industry 3399, Primary Metal Products, N.E.C., was split into two industries: 3398, Metal Heat Treating, and industry 3399, Primary Metal Products, N.E.C.

Value of shipments and other receipts of the Metal Heat Treating Industry in 1972 totaled \$472 million. This included shipments of metal heat treating (primary products) valued at \$463 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts of \$1 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3398, these establishments accounted for 14 percent of value of shipments.

INDUSTRY 3399.—PRIMARY METAL PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing primary metal products, not elsewhere classified, such as nonferrous nails, brads, and spikes, and metal

EXPLANATORY TEXT—Continued

powder, flakes, and paste. For a detailed list of products of industry 3399, refer to table 6A, product codes 33991 11 to 33992 98.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual and a new SIC number and title have been assigned. Industry 3399, Primary Metal Products, N.E.C., was split into two industries: 3398, Metal Heat Treating, and industry 3399, Primary Metal Products, N.E.C.

Value of shipments and other receipts of the Primary Metal Products, N.E.C., Industry in 1972 totaled \$347 million. This included shipments of primary metal products, n.e.c., (primary products) valued at \$307 million, shipments of other products (secondary products) valued at \$28 million, and miscellaneous receipts (mainly cost of resales) of \$12 million.

Shipments of primary metal products, n.e.c., (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in

1972 consisted mainly of industry 3398, Metal Heat Treating, (\$9 million).

Shipments of primary metal products, n.e.c., (primary products) from establishments classified in industry 3399 in 1972 represented 74 percent (coverage ratio) of these products valued at \$416 million shipped by all industries. Other industries shipping primary metal products, n.e.c., consisted mainly of industry 3545, Machine Tool Accessories, and industry 3694, Engine Electrical Equipment, (\$20 to \$50 million each).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3399, these establishments accounted for 0 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3351.--COPPER ROLLING AND DRAWING															
1972 Census.....	148	116	37.7	383.1	29.9	63.1	288.1	798.8	2,313.0	3,096.6	65.2	(NA)	327.7	89	93
Establishments with casting department...	37	37	23.3	247.3	18.5	39.2	188.8	491.4	1,317.3	1,800.6	39.6	(NA)	207.6	(NA)	(NA)
Establishments without casting department...	111	79	14.4	135.8	11.4	23.9	99.3	307.4	995.7	1,296.0	25.6	(NA)	120.1	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	36.9	336.5	28.9	58.7	248.9	683.7	2,105.9	2,784.5	34.8	1,039.9	301.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	39.0	335.6	30.4	60.8	245.0	690.5	2,371.1	3,094.2	69.4	1,047.2	312.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	41.2	354.5	32.7	68.5	267.6	800.2	2,238.3	3,031.6	79.5	938.3	311.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	39.9	316.2	31.7	64.3	235.3	751.5	1,856.6	2,588.0	73.8	857.9	290.8	(NA)	(NA)
1967 Census.....	125	108	40.3	293.9	32.2	64.5	219.0	704.4	1,658.2	2,391.1	68.0	807.0	276.3	90	93
Establishments with casting department...	43	43	28.4	209.0	22.9	45.5	158.2	484.9	1,078.3	1,583.3	48.3	(NA)	195.1	(NA)	(NA)
Establishments without casting department...	82	65	11.9	84.9	9.4	19.0	60.8	219.5	579.9	807.8	19.7	(NA)	81.2	(NA)	(NA)
1966 ASM.....	(NA)	(NA)	40.9	314.3	33.3	72.0	244.1	897.9	1,985.7	2,846.3	59.9	(NA)	303.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	39.5	285.3	32.0	67.8	218.9	617.4	1,647.1	2,254.0	44.5	(NA)	238.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	39.5	273.6	31.9	67.3	210.4	525.9	1,387.4	1,923.5	34.5	661.5	221.4	(NA)	(NA)
1963 Census.....	112	92	38.9	260.3	31.5	65.7	200.2	478.4	1,188.5	1,657.5	43.5	638.7	218.4	90	91
Establishments with casting department...	36	36	25.8	175.0	20.8	43.8	135.8	305.1	687.4	985.6	27.0	(NA)	150.2	(NA)	(NA)
Establishments without casting department...	76	56	13.2	85.3	10.7	22.0	64.4	173.3	501.1	671.9	16.5	(NA)	68.2	(NA)	(NA)
1962 ASM.....	(NA)	(NA)	41.2	269.6	32.4	67.2	192.2	476.7	1,177.3	1,654.4	39.4	611.1	207.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	39.4	250.1	30.9	62.9	175.1	473.5	1,017.5	1,479.6	26.4	(NA)	194.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	39.6	237.4	31.8	63.0	165.3	452.5	994.8	1,416.9	17.4	(NA)	181.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	43.1	260.1	34.6	72.5	199.0	553.9	1,092.2	1,639.3	25.3	(NA)	191.2	(NA)	(NA)
1958 Census.....	105	89	40.3	222.3	31.8	63.3	165.4	445.4	775.6	1,209.9	44.1	(NA)	182.3	88	94
INDUSTRY 3353.--ALUMINUM SHEET, PLATE, AND FOIL (1972 SIC BASIS)															
1972 Census.....	51	50	31.4	371.3	24.6	51.9	281.9	693.6	2,019.2	2,688.5	91.0	(NA)	654.1	85	99
Establishments with melting department...	15	15	17.6	214.1	13.9	29.7	164.4	464.1	1,162.3	1,619.2	51.6	(NA)	402.5	(NA)	(NA)
Establishments without melting department...	36	35	13.7	157.2	10.7	22.2	117.5	229.6	856.9	1,069.2	39.5	(NA)	251.6	(NA)	(NA)
INDUSTRY 3354.--ALUMINUM EXTRUDED PRODUCTS (1972 SIC BASIS)															
1972 Census.....	180	128	27.7	239.2	22.1	45.4	174.1	427.6	662.9	1,078.3	32.6	(NA)	175.9	85	88
Establishments with melting department...	15	15	10.9	105.9	8.5	17.9	77.9	167.3	252.4	418.4	13.8	(NA)	95.1	(NA)	(NA)
Establishments without melting department...	165	113	16.8	133.3	13.6	27.5	96.2	260.3	410.5	659.9	18.9	(NA)	80.8	(NA)	(NA)
INDUSTRY 3355.--ALUMINUM ROLLING AND DRAWING, N.E.C. (1972 SIC BASIS)															
1972 Census.....	16	15	4.6	48.0	3.6	7.2	35.1	57.3	272.2	343.4	9.2	(NA)	65.7	86	42
Establishments with melting department...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Establishments without melting department...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1967 INDUSTRY 3352.--ALUMINUM ROLLING AND DRAWING (1972 INDUSTRIES 3353, 3354, AND 3355)															
1972 Census.....	247	193	63.7	658.5	50.3	104.5	491.1	1,178.5	2,954.3	4,110.2	132.8	(NA)	895.7	85	86
1971 ASM.....	(NA)	(NA)	64.5	593.8	49.8	97.8	426.8	1,036.7	2,714.4	3,693.2	175.3	2,543.0	903.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	65.0	563.0	49.9	99.3	399.1	998.1	2,513.7	3,459.2	212.0	2,440.3	836.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	68.2	580.3	53.6	111.6	425.3	1,088.0	2,662.4	3,738.3	185.6	2,193.2	781.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	66.0	525.0	52.1	105.8	382.0	1,008.7	2,435.9	3,382.8	205.4	2,013.1	760.2	(NA)	(NA)
1967 Census.....	218	163	61.5	479.4	48.7	101.0	354.9	938.7	2,057.9	2,958.9	155.6	1,877.1	668.1	89	89
1966 ASM.....	(NA)	(NA)	63.4	491.9	50.7	109.4	374.2	861.6	2,280.6	3,099.8	126.4	(NA)	609.6	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	57.6	430.2	45.5	98.2	323.7	711.5	1,908.2	2,597.4	140.8	(NA)	550.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	56.1	393.5	44.2	93.6	292.7	656.4	1,651.2	2,297.2	72.2	1,304.4	527.9	(NA)	(NA)
1963 Census.....	212	153	54.3	376.6	42.8	89.9	278.5	721.2	1,524.8	2,196.4	81.3	1,246.8	511.9	90	91
1962 ASM.....	(NA)	(NA)	54.4	343.6	42.8	89.6	252.8	611.2	1,423.5	2,016.6	76.6	1,174.0	455.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	52.1	321.3	40.7	86.3	233.5	564.6	1,338.3	1,881.7	60.0	(NA)	431.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	52.6	310.5	40.8	86.1	224.0	536.8	1,230.2	1,737.7	76.1	(NA)	420.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	55.4	323.4	44.3	93.9	239.7	615.2	1,366.5	1,939.6	81.0	(NA)	393.1	(NA)	(NA)
1958 Census.....	168	112	46.9	272.2	36.4	75.3	199.6	537.1	1,057.4	1,562.4	131.8	(NA)	341.5	88	94

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3356.--NONFERROUS ROLLING AND DRAWING, N.E.C.															
1972 Census.....	167	97	18.1	184.2	12.7	25.8	114.1	374.1	892.0	1,244.6	24.3	(NA)	300.1	84	87
1971 ASM.....	(NA)	(NA)	20.3	185.5	13.5	26.8	109.2	366.4	704.1	1,037.9	37.3	561.3	278.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	20.4	185.2	14.2	29.8	110.5	367.4	691.0	1,052.7	45.4	531.7	234.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	21.2	182.5	15.5	31.7	113.4	370.9	687.0	1,095.7	40.7	509.5	227.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	20.9	168.1	14.4	29.7	98.5	352.5	623.1	977.8	61.8	475.5	258.2	(NA)	(NA)
1967 Census.....	142	74	21.3	163.5	14.8	30.9	100.4	351.7	637.2	984.0	58.1	414.2	261.1	89	84
1966 ASM.....	(NA)	(NA)	21.3	166.3	15.1	32.4	103.9	380.1	694.2	1,051.1	47.7	(NA)	272.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	18.3	135.3	12.8	27.7	84.1	291.3	551.0	817.1	39.7	(NA)	229.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	17.3	123.8	12.0	25.6	76.1	252.5	443.5	690.3	37.8	296.5	215.2	(NA)	(NA)
1963 Census.....	125	67	17.4	117.5	12.3	25.4	74.1	250.6	405.0	641.0	22.2	262.5	205.9	84	81
1962 ASM.....	(NA)	(NA)	18.6	124.6	12.9	26.9	82.1	216.6	480.4	687.7	24.6	253.1	198.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	18.4	120.0	12.7	26.0	74.7	222.9	452.3	661.0	22.6	(NA)	186.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	17.5	110.7	12.2	24.4	67.7	185.2	423.1	608.2	14.1	(NA)	163.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	17.8	108.8	12.6	25.7	68.2	216.9	395.0	596.2	*13.5	(NA)	163.2	(NA)	(NA)
1958 Census.....	143	73	16.6	94.7	11.5	22.5	57.4	174.6	306.6	486.3	15.0	(NA)	149.0	77	82
INDUSTRY 3357.--NONFERROUS WIREDRAWING AND INSULATING															
1972 Census.....	340	277	68.8	645.2	52.8	110.4	452.1	1,447.2	2,983.6	4,410.8	149.6	(NA)	657.6	94	89
Wiredrawing establishments with rod mill..	36	36	12.7	124.1	10.1	21.2	95.6	283.0	677.5	951.5	17.5	(NA)	127.3	(NA)	(NA)
Wiredrawing establishments with neither rod mill nor insulating department.....	22	21	2.5	23.5	2.1	4.4	16.7	41.8	142.8	185.8	3.7	(NA)	26.1	(NA)	(NA)
Wiredrawing establishments without rod mill but with insulating department....	92	91	30.4	297.4	23.2	47.9	204.5	673.7	1,310.2	1,974.3	82.0	(NA)	274.0	(NA)	(NA)
Wire insulating establishments with neither rod mill nor wiredrawing departments.....	190	129	23.2	200.3	17.6	36.9	135.1	448.8	853.2	1,299.2	46.5	(NA)	230.1	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	63.2	552.2	47.9	98.7	373.5	1,260.5	2,538.5	3,800.6	167.0	1,474.8	607.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	67.1	542.3	50.7	106.6	374.7	1,360.0	2,709.1	4,050.0	167.7	1,349.5	607.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	68.0	535.3	51.8	110.1	371.5	1,205.3	2,571.0	3,748.2	83.6	1,236.2	579.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	66.0	489.0	50.0	105.7	339.8	1,140.1	2,275.4	3,380.3	143.2	1,202.6	525.4	(NA)	(NA)
1967 Census.....	348	275	71.7	501.6	55.3	117.0	352.7	1,330.1	2,304.2	3,591.4	188.3	1,110.5	518.7	93	89
Wiredrawing establishments with rod mill..	19	19	8.6	64.9	6.8	14.4	46.7	177.7	435.1	609.8	23.0	(NA)	74.2	(NA)	(NA)
Wiredrawing establishments with neither rod mill nor insulating department.....	32	31	4.8	32.9	3.9	8.2	23.5	74.2	144.4	213.8	7.2	(NA)	35.2	(NA)	(NA)
Wiredrawing establishments without rod mill but with insulating department....	102	99	39.2	285.2	29.6	62.4	199.6	774.6	1,279.2	2,025.2	84.5	(NA)	309.8	(NA)	(NA)
Wire insulating establishments with neither rod mill nor wiredrawing departments.....	195	126	19.1	118.6	15.0	32.0	82.9	303.6	445.5	742.6	73.6	(NA)	99.5	(NA)	(NA)
1966 ASM.....	(NA)	(NA)	68.8	487.8	54.1	117.1	348.7	1,341.2	2,394.3	3,711.1	190.0	(NA)	466.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	61.5	412.8	48.4	102.8	296.9	989.5	1,961.8	2,919.5	90.2	(NA)	398.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	54.6	347.9	42.7	90.3	248.1	763.6	1,541.9	2,320.9	47.1	747.5	328.1	(NA)	(NA)
1963 Census.....	299	227	56.4	339.9	43.9	90.4	240.9	677.5	1,452.1	2,117.9	44.5	726.5	339.3	91	86
Wiredrawing establishments with rod mill ² ..	145	132	49.3	272.6	34.3	70.8	194.1	535.5	1,201.8	1,730.0	38.1	(NA)	282.2	(NA)	(NA)
Wiredrawing establishments with neither rod mill nor insulating department ²															
Wiredrawing establishments without rod mill but with insulating department ² ...															
Wire insulating establishments with neither rod mill nor wiredrawing departments ²															
1962 ASM.....	154	96	12.5	67.4	9.6	19.6	44.8	142.1	250.3	388.0	6.3	(NA)	37.1	(NA)	(NA)

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3357.--NONFERROUS WIREDRAWING AND INSULATING--Continued														
1962 ASM.....	(NA)	(NA)	54.7	329.7	42.4	87.8	230.7	649.3	1,253.9	1,895.9	45.5	682.9	331.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	52.9	302.0	40.5	83.1	210.3	482.9	1,122.0	1,862.1	43.5	(NA)	307.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	55.3	311.3	42.1	87.8	217.8	619.7	1,126.8	1,744.8	42.9	(NA)	302.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	55.0	302.7	44.5	89.7	216.0	629.9	1,125.9	1,750.5	42.1	(NA)	306.1	(NA)	(NA)
1958 Census.....	278	182	51.9	271.9	39.8	81.7	191.0	530.1	941.3	1,466.0	35.4	(NA)	282.3	95	83
	INDUSTRY 3398.--METAL HEAT TREATING (1972 SIC BASIS)														
1972 Census.....	953	267	17.3	158.4	13.5	27.5	107.3	312.9	161.7	472.4	23.3	(NA)	36.6	(³)	(³)
	INDUSTRY 3399.--PRIMARY METAL PRODUCTS, N.E.C. (1972 SIC BASIS)														
1972 Census.....	167	104	7.8	75.2	5.9	12.1	50.5	164.6	184.1	347.3	26.9	(NA)	64.4	92	74
	1967 INDUSTRY 3399.--PRIMARY METAL PRODUCTS, N.E.C. (1972 INDUSTRIES 3398 AND 3399)														
1972 Census.....	1,120	371	25.1	233.6	19.4	39.6	157.8	477.5	345.8	819.7	50.2	(NA)	101.0	96	80
1971 ASM.....	(NA)	(NA)	23.3	209.2	17.9	36.2	137.1	398.2	246.9	642.7	65.5	477.4	84.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	22.8	195.7	17.4	34.8	129.8	375.4	198.3	573.8	67.4	433.2	67.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	26.4	204.0	20.9	42.3	138.7	413.3	247.6	658.8	49.5	389.7	66.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	24.6	184.2	19.7	39.4	128.3	410.4	231.7	637.2	25.5	331.2	63.8	(NA)	(NA)
1967 Census.....	959	371	24.7	179.4	19.7	41.4	124.5	370.2	211.0	578.5	35.0	299.1	46.3	97	85
1966 ASM.....	(NA)	(NA)	17.9	129.3	14.0	30.2	88.0	263.6	137.3	398.8	26.5	(NA)	35.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	16.3	112.7	12.5	28.0	79.1	240.6	108.6	347.2	19.5	(NA)	28.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	15.9	105.7	12.5	26.8	70.7	219.5	105.3	327.5	17.0	199.3	25.5	(NA)	(NA)
1963 Census.....	754	218	15.0	94.7	11.5	24.7	65.4	192.2	93.6	284.7	13.5	186.3	21.7	93	87
1962 ASM.....	(NA)	(NA)	12.8	74.7	9.6	21.0	48.0	143.7	85.1	231.7	9.7	166.5	15.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	11.5	67.2	8.4	17.9	41.6	116.5	67.8	186.9	7.0	(NA)	13.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	10.5	59.7	8.0	17.1	39.5	104.4	57.9	164.6	5.8	(NA)	11.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	10.1	56.1	7.8	16.2	37.6	100.0	56.3	158.5	6.3	(NA)	11.5	(NA)	(NA)
1958 Census.....	581	149	9.8	52.7	7.4	14.8	35.1	90.7	50.1	141.2	5.6	(NA)	14.4	98	87

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry	1972 industry	1972 industry	1972 industry	1967 industry	1972 industry	1972 industry	1972 industry	1972 industry	1967 industry
	3351	3353	3354	3355	3352	3356	3357	3398	3399	3399
1972.....	101	25	133	14	172	136	206	886	128	1,014
1967.....	86	(X)	(X)	(X)	155	115	206	(X)	(X)	868
1963.....	81	(X)	(X)	(X)	166	(NA)	210	(X)	(X)	695

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²Separate data were published in the 1963 Census of Manufactures for these three subindustries. However, it was subsequently determined that significant errors in classification had been made. These errors did not affect data for establishments with wire insulating establishments with neither rod mill nor wiredrawing departments.

³Relationships are not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3351.--COPPER ROLLING AND DRAWING											
1972 Census.....	10,162	(NA)	79	2,110	4.57	.74	.87	(NA)	21,188	48	12.66
1971 ASM.....	9,119	28,182	78	2,031	4.24	.76	.88	.37	18,528	49	11.65
1970 ASM.....	8,605	26,851	78	2,000	4.03	.77	.87	.34	17,705	49	11.36
1969 ASM.....	8,604	22,774	79	2,095	3.91	.74	.86	.31	19,422	44	11.68
1968 ASM.....	7,925	21,501	79	2,028	3.66	.72	.84	.33	18,835	42	11.69
1967 Census.....	7,293	20,025	80	2,003	3.40	.69	.82	.34	17,479	42	10.91
1966 ASM.....	7,692	(NA)	82	2,162	3.39	.70	.81	(NA)	11,976	35	12.47
1965 ASM.....	7,216	(NA)	81	2,118	3.23	.73	.86	(NA)	15,617	46	9.11
1964 ASM.....	6,924	16,747	81	2,109	3.13	.72	.86	.34	13,307	52	7.82
1963 Census.....	6,684	16,419	81	2,088	3.04	.72	.87	.39	12,283	54	7.28
1962 ASM.....	6,540	14,833	79	2,074	2.86	.71	.87	.37	11,565	57	7.09
1961 ASM.....	6,344	(NA)	78	2,040	2.78	.69	.86	(NA)	12,013	53	7.52
1960 ASM.....	5,998	(NA)	80	1,982	2.62	.70	.87	(NA)	11,430	52	7.18
1959 ASM.....	6,031	(NA)	80	2,095	2.74	.67	.82	(NA)	12,846	47	7.64
1958 Census.....	5,511	(NA)	79	1,991	2.61	.64	.82	(NA)	11,043	50	7.04
INDUSTRY 3353.--ALUMINUM SHEET, PLATE, AND FOIL (1972 SIC BASIS)											
1972 Census.....	11,825	(NA)	78	2,110	5.43	.75	.89	(NA)	22,089	54	13.36
INDUSTRY 3354.--ALUMINUM EXTRUDED PRODUCTS (1972 SIC BASIS)											
1972 Census.....	8,635	(NA)	80	2,054	3.83	.61	.84	(NA)	15,437	56	9.42
INDUSTRY 3355.--ALUMINUM ROLLING AND DRAWING, N.E.C. (1972 SIC BASIS)											
1972 Census.....	10,435	(NA)	78	2,000	4.88	.79	.93	(NA)	12,457	84	7.96
1967 INDUSTRY 3352.--ALUMINUM ROLLING AND DRAWING (1972 INDUSTRIES 3353, 3354, AND 3355)											
1972 Census.....	10,338	(NA)	79	2,078	4.70	.72	.88	(NA)	18,501	56	11.28
1971 ASM.....	9,206	39,426	77	1,964	4.36	.73	.90	.69	16,073	57	10.60
1970 ASM.....	8,662	37,543	77	1,990	4.02	.73	.89	.71	15,355	56	10.05
1969 ASM.....	8,509	32,158	79	2,082	3.81	.71	.87	.59	15,953	53	9.75
1968 ASM.....	7,955	30,502	79	2,031	3.61	.72	.88	.60	15,283	52	9.53
1967 Census.....	7,795	30,522	79	2,074	3.51	.70	.86	.63	15,263	51	9.29
1966 ASM.....	7,759	(NA)	80	2,158	3.42	.74	.89	(NA)	13,590	57	7.86
1965 ASM.....	7,469	(NA)	79	2,158	3.30	.73	.90	(NA)	12,352	60	7.25
1964 ASM.....	7,014	23,251	79	2,118	3.13	.72	.89	.57	11,701	60	7.01
1963 Census.....	6,936	22,961	79	2,100	3.10	.69	.87	.57	13,282	52	8.02
1962 ASM.....	6,316	21,581	79	2,093	2.82	.71	.88	.58	11,235	56	6.82
1961 ASM.....	6,167	(NA)	78	2,120	2.71	.71	.88	(NA)	10,837	57	6.54
1960 ASM.....	5,903	(NA)	78	2,110	2.60	.71	.89	(NA)	10,205	58	6.23
1959 ASM.....	5,838	(NA)	80	2,120	2.55	.70	.87	(NA)	11,105	53	6.55
1958 Census.....	5,804	(NA)	78	2,069	2.65	.68	.85	(NA)	11,452	51	7.13
INDUSTRY 3356.--NONFERROUS ROLLING AND DRAWING, N.E.C.											
1972 Census.....	10,177	(NA)	70	2,031	4.42	.72	.86	(NA)	20,669	49	14.50
1971 ASM.....	9,138	27,650	67	1,985	4.08	.68	.86	.54	18,049	51	13.67
1970 ASM.....	9,078	26,064	70	2,099	3.71	.66	.83	.51	18,010	50	12.33
1969 ASM.....	8,608	24,033	73	2,045	3.58	.63	.79	.46	17,495	49	11.70
1968 ASM.....	8,043	22,751	69	2,063	3.32	.64	.81	.48	16,866	48	11.87
1967 Census.....	7,676	19,446	69	2,088	3.25	.65	.81	.42	16,512	46	11.38
1966 ASM.....	7,797	(NA)	71	2,140	3.21	.66	.82	(NA)	17,823	44	11.75
1965 ASM.....	7,405	(NA)	70	2,162	3.03	.67	.84	(NA)	15,937	46	10.51
1964 ASM.....	7,161	17,110	69	2,141	2.97	.64	.82	.43	14,611	49	9.85
1963 Census.....	6,760	15,086	71	2,067	2.92	.63	.82	.41	14,422	47	9.88
1962 ASM.....	6,704	13,608	70	2,083	3.05	.70	.88	.37	11,656	58	8.05
1961 ASM.....	6,516	(NA)	69	2,044	2.88	.68	.87	(NA)	12,105	54	8.58
1960 ASM.....	6,325	(NA)	69	2,009	2.77	.70	.88	(NA)	10,583	60	7.59
1959 ASM.....	6,125	(NA)	71	2,036	2.66	.66	.85	(NA)	12,209	50	8.45
1958 Census.....	5,716	(NA)	69	1,966	2.55	.63	.83	(NA)	10,538	54	7.75

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3357.--NONFERROUS WIREDRAWING AND INSULATING											
1972 Census.....	9,378	(NA)	77	2,091	4.10	.68	.82	(NA)	21,052	45	13.12
1971 ASM.....	8,737	23,335	76	2,061	3.78	.67	.81	.39	19,945	44	12.77
1970 ASM.....	8,082	20,112	76	2,103	3.52	.67	.80	.33	20,268	40	12.76
1969 ASM.....	7,872	18,179	76	2,125	3.37	.69	.83	.33	17,725	44	10.95
1968 ASM.....	7,409	18,221	76	2,114	3.22	.67	.82	.36	17,274	43	10.79
1967 Census.....	6,996	15,488	77	2,116	3.01	.64	.78	.31	18,551	38	11.37
1966 ASM.....	7,092	(NA)	79	2,164	2.98	.65	.78	(NA)	19,501	36	11.46
1965 ASM.....	6,710	(NA)	79	2,124	2.89	.67	.81	(NA)	16,084	42	9.63
1964 ASM.....	6,376	13,690	78	2,115	2.75	.66	.81	.32	13,994	46	8.46
1963 Census.....	6,025	12,872	78	2,058	2.67	.69	.85	.34	12,009	50	7.50
1962 ASM.....	6,026	12,484	78	2,070	2.63	.66	.84	.36	11,866	51	7.39
1961 ASM.....	5,709	(NA)	77	2,053	2.53	.60	.76	(NA)	9,130	63	5.81
1960 ASM.....	5,634	(NA)	76	2,088	2.48	.65	.82	(NA)	11,217	50	7.05
1959 ASM.....	5,502	(NA)	81	2,016	2.41	.64	.82	(NA)	11,449	48	7.02
1958 Census.....	5,239	(NA)	77	2,055	2.34	.64	.83	(NA)	10,214	51	6.49
INDUSTRY 3398.--METAL HEAT TREATING (1972 SIC BASIS)											
1972 Census.....	9,156	(NA)	78	2,037	3.97	.34	.68	(NA)	18,087	51	11.38
INDUSTRY 3399.--PRIMARY METAL PRODUCTS, N.E.C. (1972 SIC BASIS)											
1972 Census.....	9,641	(NA)	76	2,051	4.17	.53	.75	(NA)	21,103	46	13.60
1967 INDUSTRY 3399.--PRIMARY METAL PRODUCTS, N.E.C. (1972 INDUSTRIES 3398 AND 3399)											
1972 Census.....	9,307	(NA)	77	2,041	3.98	.42	.71	(NA)	19,024	41	12.06
1971 ASM.....	8,979	20,489	77	2,022	3.79	.38	.71	.74	17,090	45	11.00
1970 ASM.....	8,583	19,000	76	2,000	3.73	.35	.69	.75	16,465	46	10.79
1969 ASM.....	7,727	14,761	79	2,024	3.28	.38	.69	.59	15,655	51	9.77
1968 ASM.....	7,488	13,463	80	2,000	3.26	.36	.65	.59	16,683	48	10.42
1967 Census.....	7,263	12,109	80	2,102	3.01	.36	.67	.52	14,988	53	8.94
1966 ASM.....	7,223	(NA)	78	2,157	2.91	.34	.67	(NA)	14,726	53	8.73
1965 ASM.....	6,914	(NA)	77	2,240	2.83	.31	.64	(NA)	14,761	52	8.59
1964 ASM.....	6,648	12,535	79	2,144	2.64	.32	.64	.61	13,805	57	8.19
1963 Census.....	6,313	12,420	77	2,148	2.65	.33	.66	.65	12,813	60	7.78
1962 ASM.....	5,836	13,008	75	2,188	2.29	.37	.69	.72	11,227	67	6.84
1961 ASM.....	5,843	(NA)	73	2,131	2.32	.36	.72	(NA)	10,130	72	6.51
1960 ASM.....	5,686	(NA)	76	2,138	2.31	.35	.71	(NA)	9,943	77	6.11
1959 ASM.....	5,554	(NA)	77	2,077	2.32	.36	.71	(NA)	9,901	78	6.17
1958 ASM.....	5,378	(NA)	76	2,000	2.37	.35	.73	(NA)	9,255	82	6.13

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3353.--Aluminum Sheet, Plate, and Foil.....	51	50	31.4	693.6	2,019.2	(X)	(X)	(X)	(X)	(X)
Old industry 3352.--Aluminum Rolling and Drawing.....	51	50	31.4	693.6	2,019.2	233	179	56.0	1,046.5	3,746.1
New industry 3354.--Aluminum Extruded Products.....	180	128	27.7	427.6	1,078.3	(X)	(X)	(X)	(X)	(X)
Old industry 3352.--Aluminum Rolling and Drawing.....	180	128	27.7	427.6	1,078.3	233	179	56.0	1,046.5	3,746.1
New industry 3355.--Aluminum Rolling and Drawing, N.E.C....	16	15	4.6	57.3	343.4	(X)	(X)	(X)	(X)	(X)
Old industry 3352.--Aluminum Rolling and Drawing.....	16	15	4.6	57.3	343.4	233	179	56.0	1,046.5	3,746.1
New industry 3398.--Metal Heat Treating.....	953	267	17.3	312.9	472.4	(X)	(X)	(X)	(X)	(X)
Old industry 3399.--Primary Metal Products, N.E.C.....	953	267	17.3	312.9	472.4	1,121	370	25.6	484.5	823.9
New industry 3399.--Primary Metal Products, N.E.C.....	167	104	7.8	164.6	347.3	(X)	(X)	(X)	(X)	(X)
Old industry 3399.--Primary Metal Products, N.E.C.....	167	104	7.8	164.6	347.3	1,121	370	25.6	484.5	823.9

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3351-- COPPER ROLLING AND DRAWING													
UNITED STATES.	148	116	37.7	383.1	29.9	63.1	288.1	798.8	2 313.0	3 096.6	65.2	40.3	704.4
NORTHEAST REGION.	78	57	19.0	195.5	14.7	31.4	144.2	383.9	1 037.7	1 408.6	33.1	22.8	380.8
NEW ENGLAND DIVISION.	31	25	8.7	94.0	6.8	14.4	69.4	174.5	377.1	544.4	23.1	11.6	187.6
MASSACHUSETTS.	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
RHODE ISLAND.	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT.	20	19	7.4	81.9	5.8	12.4	60.6	154.8	351.7	499.7	22.9	10.1	164.3
MIDDLE ATLANTIC DIVISION.	47	32	10.3	101.4	7.9	17.0	74.8	209.5	660.5	864.3	10.0	11.2	193.2
NEW YORK.	16	8	3.1	29.5	2.5	4.9	22.7	64.5	230.9	296.0	1.6	3.6	59.9
NEW JERSEY.	13	10	2.8	26.9	2.2	4.8	20.4	53.8	275.8	329.4	3.3	3.0	54.6
PENNSYLVANIA.	18	14	4.4	45.0	3.3	7.2	31.6	91.2	153.9	238.9	5.1	4.6	78.7
NORTH CENTRAL REGION.	44	37	14.2	146.4	11.3	23.4	111.1	290.7	822.0	1 112.1	15.0	13.6	254.1
EAST NORTH CENTRAL DIVISION.	43	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO.	10	8	2.1	22.5	1.6	3.2	16.1	25.6	130.0	156.3	1.0	2.3	36.9
INDIANA.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS.	9	7	4.8	51.2	3.7	7.8	37.2	109.5	248.0	354.3	6.8	4.5	81.6
MICHIGAN.	15	13	3.3	32.4	2.8	5.6	26.2	73.7	263.3	341.5	3.9	3.9	78.4
WISCONSIN.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	16	13	3.1	27.5	2.7	6.1	22.7	76.7	260.8	336.2	15.9	2.5	40.9
SOUTH ATLANTIC DIVISION.	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
VIRGINIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	6	6	1.8	16.1	1.6	3.8	13.6	53.2	99.6	149.7	.8	EE	(D)
TENNESSEE.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ARKANSAS.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	10	9	1.4	13.6	1.1	2.2	10.1	47.5	192.4	239.7	1.3	1.3	28.7
MOUNTAIN DIVISION.	3	3	.2	2.1	.2	.4	1.7	22.3	131.4	153.3	.1	(NA)	(NA)
PACIFIC DIVISION.	7	6	1.2	11.6	.9	1.8	8.4	25.2	61.0	86.4	1.2	EE	(D)
CALIFORNIA.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3353-- ALUMINUM SHEET, PLATE, AND FOIL													
UNITED STATES.	51	50	31.4	371.3	24.6	51.9	281.9	693.6	2 019.2	2 688.5	91.0	(NA)	(NA)
NORTHEAST REGION.	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	16	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	11	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS.	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA.	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	20	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA.	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY.	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3354-- ALUMINUM EXTRUDED PRODUCTS													
UNITED STATES	180	128	27.7	239.2	22.1	45.4	174.1	427.6	662.9	1 078.3	32.6	(NA)	(NA)
NORTHEAST REGION	37	26	5.2	43.5	4.2	8.2	31.5	85.4	125.2	207.2	8.8	(NA)	(NA)
NEW ENGLAND DIVISION	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	28	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	66	52	8.7	81.6	7.0	14.1	58.8	132.5	210.9	341.8	8.3	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	54	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	16	15	1.7	14.8	1.4	2.9	10.9	26.6	45.0	70.6	1.2	(NA)	(NA)
INDIANA	11	8	2.6	27.3	2.1	4.3	20.3	41.1	57.9	98.7	2.8	(NA)	(NA)
ILLINOIS	10	8	1.2	10.6	1.0	1.8	7.3	13.6	33.9	47.1	.6	(NA)	(NA)
MICHIGAN	16	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	12	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	53	36	7.5	56.4	6.1	13.2	42.6	120.8	185.3	297.6	11.1	(NA)	(NA)
SOUTH ATLANTIC DIVISION	28	19	4.4	33.5	3.6	7.8	25.1	68.5	105.4	171.8	5.2	(NA)	(NA)
MARYLAND	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	7	6	2.2	15.3	1.8	4.1	11.6	35.8	44.0	78.3	2.6	(NA)	(NA)
FLORIDA	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	15	10	1.6	11.3	1.2	2.7	8.7	26.4	47.7	72.0	4.2	(NA)	(NA)
KENTUCKY	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	10	7	1.5	11.6	1.3	2.7	8.8	25.9	32.1	53.7	1.7	(NA)	(NA)
ARKANSAS	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	24	14	6.3	57.7	4.9	9.9	41.2	88.9	141.4	231.7	4.4	(NA)	(NA)
MOUNTAIN DIVISION	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	22	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	19	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3355-- ALUMINUM ROLLING AND DRAWING, NEC													
UNITED STATES	16	15	4.6	48.0	3.6	7.2	35.1	57.3	272.2	343.4	9.2	(NA)	(NA)
NORTHEAST REGION	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3356-- NONFERROUS ROLLING, DRAWING, NEC													
UNITED STATES	167	97	18.1	184.2	12.7	25.8	114.1	374.1	892.0	1 244.6	24.3	21.3	351.7
NORTHEAST REGION	73	46	6.6	63.5	4.9	10.2	41.6	149.8	425.8	556.1	5.9	7.4	116.2
NEW ENGLAND DIVISION	21	12	2.1	19.1	1.6	3.7	13.4	56.5	157.5	204.1	2.1	2.3	52.4
MAINE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	9	4	1.0	9.0	.7	1.7	6.1	23.0	96.3	113.4	.8	1.3	19.1
CONNECTICUT	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION	52	34	4.5	44.4	3.2	6.5	28.2	93.3	268.3	352.0	3.8	5.0	63.8
NEW YORK	16	12	1.2	11.6	.8	1.6	6.5	17.3	137.3	153.1	.6	EE	(D)
NEW JERSEY	16	10	1.6	16.0	1.1	2.2	9.5	35.4	81.5	108.9	.9	1.9	8.3
PENNSYLVANIA	20	12	1.6	16.9	1.3	2.7	12.2	40.5	49.4	90.1	2.3	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3356-- NONFERROUS ROLLING AND DRAWING, NEC--CONTINUED													
NORTH CENTRAL REGION	38	19	5.8	61.1	4.0	7.9	37.3	105.0	158.0	262.3	8.9	7.9	119.7
EAST NORTH CENTRAL DIVISION. . .	33	18	5.7	60.5	3.9	7.7	36.8	103.9	156.2	259.3	8.8	FF	(0)
OHIO	12	7	2.6	27.0	1.8	3.6	16.4	42.1	73.8	116.1	2.7	3.5	58.1
INDIANA	5	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
ILLINOIS	5	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
MICHIGAN	9	5	.8	9.8	.6	1.3	6.5	20.1	35.3	54.9	4.8	.7	12.6
SOUTH REGION	26	17	4.3	43.2	2.8	5.5	24.3	81.4	250.0	332.3	8.3	4.1	68.7
SOUTH ATLANTIC DIVISION.	9	7	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
WEST VIRGINIA	2	1	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
NORTH CAROLINA	3	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	5.8
EAST SOUTH CENTRAL DIVISION. . .	4	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
TENNESSEE	2	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
ALABAMA	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	13	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
OKLAHOMA	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
TEXAS E4	10	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST REGION.	30	15	1.5	16.4	1.1	2.2	10.9	37.8	58.2	93.8	1.3	1.9	47.0
MOUNTAIN DIVISION.	6	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
NEVADA	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
PACIFIC DIVISION	24	11	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
OREGON	3	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
CALIFORNIA	19	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	9.3
3357-- NONFERROUS WIREDRAWING, INSULATING													
UNITED STATES.	340	277	68.8	645.2	52.8	110.4	452.1	1 447.2	2 983.6	4 410.8	149.6	71.7	1 330.1
NORTHEAST REGION	165	134	33.9	312.6	25.8	54.0	216.0	622.7	1 215.6	1 835.7	42.5	40.4	730.9
NEW ENGLAND DIVISION	79	66	16.7	143.7	12.8	27.0	99.6	296.1	475.5	764.1	22.2	18.0	319.3
MAINE	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEW HAMPSHIRE	5	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
VERMONT	5	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
MASSACHUSETTS	27	22	4.5	39.4	3.4	7.6	29.0	77.5	86.3	160.7	4.8	5.5	96.5
RHODE ISLAND	13	13	5.1	43.3	4.1	8.6	32.1	102.0	202.8	299.5	9.6	6.0	103.6
CONNECTICUT	28	21	5.0	45.4	3.7	7.8	28.8	90.4	142.7	229.2	6.0	4.8	95.8
MIDDLE ATLANTIC DIVISION	86	68	17.2	168.9	13.0	27.0	116.4	325.6	740.1	1 071.6	20.3	21.7	406.4
NEW YORK	35	27	8.7	85.3	6.6	13.7	58.8	156.7	364.5	521.3	12.6	9.9	170.6
NEW JERSEY	32	24	5.8	62.2	4.2	8.9	42.6	137.0	284.6	426.7	5.6	9.0	193.2
PENNSYLVANIA E1	19	17	2.7	21.4	2.1	4.3	15.0	31.9	91.0	123.6	2.1	2.8	42.5
NORTH CENTRAL REGION	82	66	17.0	161.3	13.2	27.3	119.1	413.0	883.5	1 278.5	22.1	18.4	370.1
EAST NORTH CENTRAL DIVISION. . .	70	59	14.2	133.9	11.2	23.2	98.5	322.8	684.6	991.4	19.7	15.7	312.4
OHIO	12	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.8	12.4
INDIANA	21	19	5.9	55.5	4.7	10.1	41.6	151.9	360.1	508.7	8.8	5.7	144.7
ILLINOIS	24	22	5.8	57.3	4.5	9.0	41.1	127.2	235.6	351.2	9.1	FF	(0)
MICHIGAN	11	9	1.5	10.6	1.3	2.5	8.8	25.5	56.3	80.2	.7	2.8	35.3
WEST NORTH CENTRAL DIVISION. . .	12	7	2.7	27.4	2.0	4.1	20.6	40.2	198.9	287.1	2.6	2.7	57.7
MISSOURI	6	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
NEBRASKA	2	1	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
SOUTH REGION	55	49	13.0	122.3	10.0	21.4	85.3	271.7	636.2	910.4	64.5	9.1	160.0
SOUTH ATLANTIC DIVISION.	29	25	8.6	88.9	6.4	14.0	60.1	179.1	415.3	601.9	57.6	6.3	111.3
DELAWARE	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
MARYLAND	2	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
VIRGINIA	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NORTH CAROLINA	10	10	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.2	21.3
SOUTH CAROLINA	3	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
GEORGIA	8	7	4.0	37.5	2.8	6.1	22.3	37.3	212.8	260.2	(0)	EE	(0)
FLORIDA	3	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
EAST SOUTH CENTRAL DIVISION. . .	14	13	2.0	15.2	1.7	3.5	11.5	43.7	110.5	151.6	3.0	1.7	19.6
KENTUCKY	7	6	1.4	9.8	1.1	2.2	7.4	33.1	66.7	97.9	1.9	1.1	5.6
ALABAMA	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	8.3
MISSISSIPPI	3	3	.3	2.0	.3	.6	1.6	4.6	4.4	8.5	.7	AA	(0)
WEST SOUTH CENTRAL DIVISION. . .	12	11	2.3	18.3	1.9	3.9	13.6	48.9	110.4	157.0	3.9	1.1	29.1
ARKANSAS	3	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
LOUISIANA	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
TEXAS	8	7	1.4	12.1	1.1	2.3	8.8	29.6	75.8	105.5	2.9	EE	(0)
WEST REGION.	38	28	5.1	49.1	3.8	7.7	31.7	140.0	248.3	386.2	20.5	3.8	69.2
MOUNTAIN DIVISION.	5	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
ARIZONA	4	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
PACIFIC DIVISION E1	33	23	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
WASHINGTON	2	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
CALIFORNIA E1	30	21	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.3	69.0

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture	
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages							
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3398-- METAL HEAT TREATING														
UNITED STATES.	E1	953	267	17.3	158.4	13.5	27.5	107.3	312.9	161.7	472.4	23.3	(NA)	(NA)
NORTHEAST REGION.	E1	248	57	3.9	34.0	3.0	6.0	22.3	67.1	22.6	89.7	4.6	(NA)	(NA)
NEW ENGLAND DIVISION.	E2	92	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	E1	31	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
RHODE ISLAND.	E4	21	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	E2	38	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	E1	156	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK.	E2	68	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY.	E1	43	13	.9	8.3	.7	1.5	5.1	14.4	4.6	19.0	1.1	(NA)	(NA)
PENNSYLVANIA.	E1	45	10	.7	6.4	.5	1.0	4.1	11.0	3.9	14.9	1.3	(NA)	(NA)
NORTH CENTRAL REGION.	E1	436	153	9.9	93.8	7.8	16.0	64.3	184.3	114.0	297.0	11.3	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	E1	397	139	9.0	86.0	7.1	14.6	59.0	169.6	108.2	276.6	10.4	(NA)	(NA)
OHIO.	E1	112	37	2.0	17.9	1.5	3.1	12.4	32.2	30.3	62.2	2.1	(NA)	(NA)
INDIANA.	E1	44	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS.	E1	74	31	2.2	20.0	1.8	3.7	14.5	39.1	19.2	58.1	1.5	(NA)	(NA)
MICHIGAN.	E1	139	50	3.3	34.8	2.6	5.4	23.3	68.1	46.8	114.5	4.3	(NA)	(NA)
WISCONSIN.	E1	28	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	E1	39	14	.9	7.8	.7	1.4	5.3	14.7	5.8	20.3	.9	(NA)	(NA)
MINNESOTA.	E1	24	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA.	E1	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	E3	100	21	1.3	9.8	1.0	1.9	6.3	20.9	7.3	28.0	3.0	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	E5	42	5	.4	2.9	.3	.6	1.8	5.9	2.5	8.4	.8	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	E4	26	4	.3	1.8	.2	.5	1.3	5.0	2.1	7.0	.7	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	E1	32	12	.6	5.0	.4	.9	3.2	10.0	2.8	12.7	1.5	(NA)	(NA)
TEXAS.	E1	22	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	E1	169	36	2.3	20.9	1.8	3.6	14.4	40.6	17.8	57.7	4.3	(NA)	(NA)
MOUNTAIN DIVISION.	E3	25	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	E1	144	33	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	E2	132	31	1.9	17.4	1.5	3.0	11.8	35.5	11.1	45.9	3.9	(NA)	(NA)
3399-- PRIMARY METAL PRODUCTS, NEC														
UNITED STATES.		167	104	7.8	75.2	5.9	12.1	50.5	164.6	184.1	347.3	26.9	(NA)	(NA)
NORTHEAST REGION.		58	36	3.1	29.5	2.2	4.6	18.2	66.4	89.9	156.7	4.3	(NA)	(NA)
NEW ENGLAND DIVISION.		9	7	.7	6.0	.5	.9	3.5	14.4	12.9	27.5	1.4	(NA)	(NA)
MASSACHUSETTS.		4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.		4	3	.2	2.0	.1	.3	1.1	7.3	3.8	10.8	1.0	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.		49	29	2.4	23.5	1.8	3.7	14.7	52.1	77.1	129.2	2.8	(NA)	(NA)
NEW YORK.		9	5	.3	3.0	.2	.4	1.9	5.9	2.6	8.6	.3	(NA)	(NA)
NEW JERSEY.		15	9	1.0	10.7	.7	1.5	5.6	24.3	39.8	63.9	.9	(NA)	(NA)
PENNSYLVANIA.		25	15	1.1	9.8	.9	1.8	7.1	21.9	34.7	56.7	1.6	(NA)	(NA)
NORTH CENTRAL REGION.		56	35	2.5	26.7	2.0	4.1	18.7	53.0	39.0	91.4	8.5	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.		51	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.		14	9	.8	7.1	.6	1.3	5.1	13.9	5.6	19.4	1.7	(NA)	(NA)
INDIANA.		9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS.		10	5	.3	3.2	.3	.5	2.3	6.5	3.5	9.9	.1	(NA)	(NA)
MICHIGAN.		13	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.		5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.		5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.		29	19	1.4	12.2	1.1	2.3	8.9	30.2	40.3	69.8	13.3	(NA)	(NA)
SOUTH ATLANTIC DIVISION.		7	4	.2	2.4	.2	.5	1.8	4.7	8.8	13.1	10.9	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.		14	9	.6	5.8	.5	1.0	4.3	15.0	21.2	36.5	1.8	(NA)	(NA)
KENTUCKY.		3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.		6	4	.2	2.2	.2	.4	1.6	6.0	10.6	17.2	.2	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.		8	6	.6	4.0	.4	.8	2.7	10.5	10.3	20.2	.5	(NA)	(NA)
OKLAHOMA.		5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.		3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.		24	14	.8	6.7	.6	1.2	4.7	14.9	14.9	29.4	.8	(NA)	(NA)
MOUNTAIN DIVISION.		5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.		19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.		15	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Copper rolling and drawing (SIC 3351)	Aluminum sheet, plate, and foil (SIC 3353)	Aluminum extruded products (SIC 3354)	Aluminum rolling and drawing, n.e.c. (SIC 3355)	Nonferrous rolling and drawing, n.e.c. (SIC 3356)	Nonferrous wire- drawing and insulating, n.e.c. (SIC 3357)	Metal heat treating (SIC 3398)	Primary metal products, n.e.c. (SIC 3399)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT .	89	85	85	86	84	94	(³)	92
COVERAGE RATIO ² DO	93	99	88	42	87	89	(³)	74
ESTABLISHMENTS, TOTAL NUMBER .	148	51	180	16	167	340	953	167
WITH 1 TO 19 EMPLOYEES DO	32	1	52	1	70	63	686	63
WITH 20 TO 99 EMPLOYEES DO	38	13	56	6	56	104	249	90
WITH 100 EMPLOYEES OR MORE DO	78	37	72	9	41	173	18	14
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000 .	37.7	31.4	27.7	4.6	18.1	68.8	17.3	7.8
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS .	383.1	371.3	239.2	48.0	184.2	645.2	158.4	75.2
PRODUCTION WORKERS:								
AVERAGE FOR YEAR 1,000 .	29.9	24.6	22.1	3.6	12.7	52.8	13.5	5.9
MARCH DO	28.8	23.9	21.1	3.4	12.1	51.4	13.3	5.6
MAY DO	29.9	24.5	22.1	3.6	12.6	52.4	13.3	5.8
AUGUST DO	30.1	24.8	22.3	3.7	12.8	53.5	13.5	6.1
NOVEMBER DO	30.7	25.1	23.0	3.6	13.1	54.5	14.0	6.0
MAN-HOURS MILLIONS .	63.1	51.9	45.4	7.2	25.8	110.4	27.5	12.1
JANUARY-MARCH DO	15.6	12.5	11.0	1.7	6.1	26.9	6.7	2.9
APRIL-JUNE DO	16.3	13.0	11.5	1.8	6.6	28.2	6.8	3.0
JULY-SEPTEMBER DO	14.8	12.9	11.3	1.8	6.3	26.3	6.8	3.1
OCTOBER-DECEMBER DO	16.5	13.6	11.6	1.8	6.8	28.8	7.2	3.1
WAGES MILLION DOLLARS .	288.1	281.9	174.1	35.1	114.1	452.1	107.3	50.5
COST OF MATERIALS, ETC., TOTAL DO	2 313.0	2 019.2	662.9	272.2	892.0	2 983.6	161.7	184.1
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	2 234.2	1 897.6	614.1	264.9	825.0	2 862.6	106.2	164.8
COST OF REALES DO	14.6	43.0	7.7	.5	30.7	58.6	19.5	5.4
FUELS CONSUMED DO	18.8	30.9	11.1	3.9	6.4	14.5	15.4	4.9
PURCHASED ELECTRIC ENERGY DO	26.7	30.2	13.6	2.3	10.3	34.5	13.1	5.8
CONTRACT WORK DO	18.6	17.6	16.4	.5	19.6	13.5	7.5	3.3
VALUE OF SHIPMENTS, INCLUDING REALES DO	3 096.6	2 688.5	1 078.3	343.4	1 244.6	4 410.8	472.4	347.3
VALUE OF REALES DO	15.4	39.7	5.0	.5	34.5	64.7	23.5	6.4
VALUE ADDED BY MANUFACTURE DO	798.8	693.6	427.6	57.3	374.1	1 447.2	312.9	164.6
MANUFACTURERS' INVENTORIES:								
BEGINNING OF YEAR, TOTAL DO	317.6	619.3	155.5	60.2	276.5	632.4	39.5	58.8
FINISHED PRODUCTS DO	84.9	147.5	39.3	13.8	79.2	229.5	4.3	18.1
WORK IN PROCESS DO	126.3	368.8	61.4	53.5	123.5	222.1	5.6	18.5
MATERIALS, SUPPLIES, FUEL, ETC. DO	106.4	103.0	54.7	12.9	73.8	180.6	29.6	22.3
END OF YEAR, TOTAL DO	327.7	654.1	175.9	65.7	300.1	657.6	36.6	64.4
FINISHED PRODUCTS DO	81.8	158.1	51.9	14.7	81.0	230.9	5.0	17.9
WORK IN PROCESS DO	144.6	382.6	61.0	38.7	143.3	240.9	7.1	20.0
MATERIALS, SUPPLIES, FUEL, ETC. DO	101.3	113.4	63.0	12.2	75.8	185.8	24.5	26.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	78.0	92.0	34.3	9.4	25.6	153.9	27.0	29.0
NEW PLANT AND EQUIPMENT, TOTAL DO	65.2	91.0	32.6	9.2	24.3	149.6	23.3	26.9
NEW STRUCTURES AND ADDITIONS TO PLANT DO	16.5	19.9	6.9	1.7	4.1	21.6	4.5	3.6
NEW MACHINERY AND EQUIPMENT DO	48.8	71.2	25.7	7.5	20.2	128.0	18.8	23.3
USED PLANT AND EQUIPMENT DO	12.8	1.0	1.6	.2	1.3	4.3	3.8	2.1

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.³Relationships are not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3351-- COPPER ROLLING AND DRAWING											
ESTABLISHMENTS, TOTAL,	148	37.7	383.1	29.9	63.1	288.1	798.8	2 313.0	3 096.6	65.2	327.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	17	(2)	.3	(2)	.1	.2	2.5	8.2	10.7	.3	1.1
5 TO 9 EMPLOYEES E6	4	(2)	.2	(2)	(2)	.1	.2	.4	.7	(2)	.1
10 TO 19 EMPLOYEES E1	11	.2	1.7	.1	.2	1.0	3.9	9.4	13.2	.1	1.4
20 TO 49 EMPLOYEES	19	.7	5.9	.5	1.1	4.2	18.7	88.8	107.1	1.3	8.4
50 TO 99 EMPLOYEES	19	1.3	11.3	1.0	2.2	8.2	51.2	160.2	210.7	2.3	14.0
100 TO 249 EMPLOYEES	32	5.0	45.9	4.0	8.3	33.6	108.9	423.5	531.1	7.0	44.5
250 TO 499 EMPLOYEES	24	8.9	87.9	7.0	15.0	64.9	179.2	456.2	628.3	20.6	81.5
500 TO 999 EMPLOYEES	13	8.7	89.8	6.8	14.1	69.4	151.8	573.6	726.2	6.9	69.6
1,000 TO 2,499 EMPLOYEES	8	13.1	140.0	10.4	22.1	106.5	282.4	592.8	868.7	26.7	107.1
2,500 EMPLOYEES OR MORE,	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	14	(2)	.4	(2)	.1	.3	.6	1.9	2.5	.1	.3
3353-- ALUMINUM SHEET, PLATE, AND FOIL											
ESTABLISHMENTS, TOTAL,	51	31.4	371.3	24.6	51.9	281.9	693.6	2 019.2	2 688.5	91.0	654.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
10 TO 19 EMPLOYEES	1	.3	2.7	.3	.6	1.9	8.5	28.1	36.0	3.2	5.6
20 TO 49 EMPLOYEES	10	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
50 TO 99 EMPLOYEES	3	.2	2.5	.2	.3	1.7	5.5	14.7	19.6	(0)	5.1
100 TO 249 EMPLOYEES	10	1.9	20.1	1.4	3.1	13.5	31.0	106.7	133.0	1.3	29.8
250 TO 499 EMPLOYEES	7	2.3	24.5	1.7	3.7	17.4	38.6	204.9	241.3	3.2	48.9
500 TO 999 EMPLOYEES	11	7.0	75.0	5.3	11.1	54.5	163.3	511.5	662.2	40.2	130.7
1,000 TO 2,499 EMPLOYEES	6	19.7	246.5	15.8	33.1	192.9	446.9	1 153.4	1 596.3	43.0	434.0
2,500 EMPLOYEES OR MORE,	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3353-11 ESTABS. WITH MELTING FACILITIES											
ESTABLISHMENTS, TOTAL,	15	17.6	214.1	13.9	29.7	164.4	464.1	1 162.3	1 619.2	51.6	402.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
20 TO 49 EMPLOYEES	1	.9	9.3	.6	1.5	6.3	25.9	78.0	102.1	2.0	18.8
100 TO 249 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES	6	4.1	45.5	2.9	6.3	30.6	95.3	304.9	393.6	12.6	76.0
1,000 TO 2,499 EMPLOYEES	2	12.6	159.2	10.4	21.9	127.3	342.9	779.4	1 123.5	36.8	207.7
2,500 EMPLOYEES OR MORE,	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3353-12 ESTABS. W/O MELTING FACILITIES											
ESTABLISHMENTS, TOTAL,	36	13.7	157.2	10.7	22.2	117.5	229.6	856.9	1 069.2	39.5	251.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
10 TO 19 EMPLOYEES	1	3.8	39.4	2.9	6.2	28.2	57.5	276.5	328.0	5.7	5.6
20 TO 49 EMPLOYEES	9	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
50 TO 99 EMPLOYEES	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	65.1
100 TO 249 EMPLOYEES	9	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES	5	2.9	29.4	2.4	4.8	23.8	68.0	206.5	268.6	27.6	54.7
1,000 TO 2,499 EMPLOYEES	4	7.1	87.3	5.4	11.2	65.5	104.0	374.0	472.8	6.2	126.2
3354-- ALUMINUM EXTRUDED PRODUCTS											
ESTABLISHMENTS, TOTAL,	180	27.7	239.2	22.1	45.4	174.1	427.6	662.9	1 078.3	32.6	175.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	31	.1	1.0	.1	.2	.7	1.5	2.6	5.6	.5	1.2
5 TO 9 EMPLOYEES	7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES E7	14	.2	1.6	.2	.3	1.1	3.5	5.9	9.1	1.7	1.6
20 TO 49 EMPLOYEES E1	23	.8	5.8	.7	1.2	4.3	13.2	23.0	35.7	2.4	3.3
50 TO 99 EMPLOYEES	33	2.3	16.3	1.9	3.8	12.0	36.5	71.5	107.0	3.6	12.3
100 TO 249 EMPLOYEES	48	8.5	74.5	6.9	14.8	53.6	136.1	211.8	345.2	7.2	41.3
250 TO 499 EMPLOYEES	14	4.7	34.9	3.8	7.4	26.7	71.2	117.0	183.6	8.1	28.9
500 TO 999 EMPLOYEES	6	4.1	40.1	3.2	6.6	29.1	62.0	79.4	137.6	2.7	27.6
1,000 TO 2,499 EMPLOYEES	3	7.0	65.0	5.4	11.2	46.7	102.6	150.6	254.4	6.6	59.6
2,500 EMPLOYEES OR MORE,	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	27	.1	.8	.1	.1	.6	1.3	3.5	4.9	.3	1.2
3354-11 ESTABS. WITH MELTING FACILITIES											
ESTABLISHMENTS, TOTAL,	15	10.9	105.9	8.5	17.9	77.9	167.3	252.4	418.4	13.8	95.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
50 TO 99 EMPLOYEES	2	1.0	10.3	.9	1.8	7.9	17.0	37.5	54.1	1.4	7.3
100 TO 249 EMPLOYEES	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES	3	2.8	30.6	2.2	4.8	23.3	46.7	64.2	109.8	5.8	28.2
500 TO 999 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
1,000 TO 2,499 EMPLOYEES	3	7.0	65.0	5.4	11.2	46.7	102.6	150.6	254.4	6.6	59.6
2,500 EMPLOYEES OR MORE,	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)											
Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3354-- ALUMINUM EXTRUDED PRODUCTS--CON.											
3354-12 ESTABS. W/O MELTING FACILITIES											
ESTABLISHMENTS, TOTAL.	165	16.8	133.3	13.6	27.5	96.2	260.3	410.5	659.9	18.9	80.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	31	.1	1.0	.1	.2	.7	1.5	3.6	5.6	.5	1.2
5 TO 9 EMPLOYEES E7	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES E7	14	.2	1.6	.2	.3	1.1	3.5	5.9	9.1	1.7	1.6
20 TO 49 EMPLOYEES E1	23	.8	5.8	.7	1.2	4.3	13.2	23.0	35.7	2.4	3.3
50 TO 99 EMPLOYEES	31	9.8	80.6	8.0	16.8	57.6	155.6	245.8	398.1	9.4	46.4
100 TO 249 EMPLOYEES	44	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	11	6.0	44.4	4.7	9.2	32.5	86.5	132.2	211.3	5.0	28.4
500 TO 999 EMPLOYEES	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	27	.1	.8	.1	.1	.6	1.3	3.5	4.9	.3	1.2
3355-- ALUMINUM ROLLING AND DRAWING, NEC											
ESTABLISHMENTS, TOTAL.	16	4.6	48.0	3.6	7.2	35.1	57.3	272.2	343.4	9.2	65.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 TO 99 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	4	4.1	43.1	3.2	6.3	31.9	39.6	221.1	274.5	6.6	61.4
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3355-11 ESTABS. WITH MELTING FACILITIES											
ESTABLISHMENTS, TOTAL.	4	3.1	34.9	2.4	4.7	25.5	28.1	170.3	211.9	6.3	48.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
250 TO 499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3355-12 ESTABS. W/O MELTING FACILITIES											
ESTABLISHMENTS, TOTAL.	12	1.5	13.1	1.2	2.5	9.6	29.2	101.9	131.5	2.8	17.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 TO 99 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 TO 249 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3356-- NONFERROUS ROLLING, DRAWING, NEC											
ESTABLISHMENTS, TOTAL.	167	18.1	184.2	12.7	25.8	114.1	374.1	892.0	1 244.6	24.3	300.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	21	.1	.3	.1	.1	.2	.7	1.2	1.9	.1	.4
5 TO 9 EMPLOYEES E3	23	.2	.9	.1	.3	.7	1.8	10.0	11.8	.2	.8
10 TO 19 EMPLOYEES E1	26	.4	3.0	.3	.6	1.9	8.1	23.9	30.7	1.3	4.3
20 TO 49 EMPLOYEES	32	1.0	10.1	.8	1.7	6.9	29.8	112.3	138.0	1.5	20.9
50 TO 99 EMPLOYEES	24	1.8	15.5	1.3	2.7	9.7	37.8	100.0	133.6	5.8	28.0
100 TO 249 EMPLOYEES	24	3.7	36.0	2.7	5.3	23.3	66.8	198.3	260.2	6.0	70.3
250 TO 499 EMPLOYEES	10	3.5	37.7	2.4	5.2	23.3	86.3	133.4	216.1	3.8	44.2
500 TO 999 EMPLOYEES	5	7.5	80.6	5.0	9.9	48.2	142.8	313.0	452.2	5.7	131.1
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	29	.2	.9	.2	.3	.6	1.8	3.9	5.7	.2	1.2
3357-- NONFERROUS WIREDRAWING, INSULATING											
ESTABLISHMENTS, TOTAL.	340	68.8	645.2	52.8	110.4	452.1	1 447.2	2 983.6	4 410.8	149.6	657.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	29	.1	.4	(Z)	.1	.3	.8	1.9	2.8	.1	.4
5 TO 9 EMPLOYEES E6	18	.1	.9	.1	.2	.7	1.8	2.7	4.6	.2	.7
10 TO 19 EMPLOYEES	18	.3	2.3	.2	.4	1.3	6.0	8.2	14.1	.4	2.2
20 TO 49 EMPLOYEES E1	48	1.5	13.7	1.2	2.4	8.9	28.6	57.9	86.7	3.8	9.9
50 TO 99 EMPLOYEES	57	4.1	34.4	3.4	7.5	25.5	87.3	196.3	281.5	8.6	42.9
100 TO 249 EMPLOYEES	93	15.3	136.4	11.8	25.1	93.4	314.6	753.1	1 062.2	26.7	175.8
250 TO 499 EMPLOYEES	53	30.5	267.2	23.4	47.8	186.8	586.1	1 241.1	1 810.3	110.0	300.6
500 TO 999 EMPLOYEES	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	10	16.9	189.7	12.8	26.8	135.2	422.1	722.5	1 148.4	(D)	125.2
ESTABS. COVERED BY ADMIN. RECORD ¹ .	36	.1	.9	.1	.2	.6	1.5	3.4	4.8	.1	.8
3357-11 WITH ROD MILL											
ESTABLISHMENTS, TOTAL.	36	12.7	124.1	10.1	21.2	95.6	283.0	677.5	951.5	17.5	127.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
50 TO 99 EMPLOYEES	4	.3	2.5	.3	.6	1.8	4.5	10.5	15.1	.1	1.5
100 TO 249 EMPLOYEES	16	7.3	66.8	5.9	12.4	50.9	125.6	382.1	509.4	9.5	78.3
250 TO 499 EMPLOYEES	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	3	5.1	54.8	3.9	8.2	42.9	152.9	284.9	427.0	7.9	47.5
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix. Explanation of Terms)

Item	Establish- ments (number)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expendi- tures, new (million dollars)	End-of- year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3357-- NONFERROUS WIREDRAWING AND INSULATING--CONTINUED											
3357-12 W/O ROD MILL OR INSULATING											
ESTABLISHMENTS, TOTAL.	22	2.5	23.5	2.1	4.4	16.7	41.8	142.8	185.8	3.7	26.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
10 TO 19 EMPLOYEES	1	.2	3.1	.3	.8	1.6	4.9	17.8	22.8	.6	2.2
20 TO 49 EMPLOYEES	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 TO 99 EMPLOYEES	4	.3	2.3	.2	.5	1.9	1.4	22.3	42.3	.2	5.6
100 TO 249 EMPLOYEES	9	2.6	13.1	1.6	2.5	13.3	27.4	82.3	119.7	2.6	18.2
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3357-13 W/O ROD MILL BUT WITH INSULATING											
ESTABLISHMENTS, TOTAL.	92	30.4	297.4	23.2	47.9	204.5	673.7	1 310.2	1 974.3	82.0	274.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES	1	.1	1.1	.1	.2	.5	3.2	7.2	10.8	.2	.7
10 TO 19 EMPLOYEES	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	16	1.2	10.3	1.0	2.2	7.8	27.1	61.3	87.6	1.5	12.9
50 TO 99 EMPLOYEES	33	5.6	50.2	4.3	9.0	34.5	129.5	321.2	451.3	5.0	70.9
100 TO 249 EMPLOYEES	24	8.6	73.4	6.7	13.4	50.1	165.3	300.5	462.1	75.1	68.0
250 TO 499 EMPLOYEES	7	1.8	16.2	1.8	3.7	12.2	34.6	61.7	82.6	1.8	12.9
500 TO 999 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3357-14 W/O WIREDRAWING DEPT.											
ESTABLISHMENTS, TOTAL.	190	23.2	200.3	17.6	36.9	175.1	448.7	803.2	1 299.4	46.0	210.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	29	.1	.4	(Z)	.1	.3	.8	1.9	2.8	.1	.4
5 TO 9 EMPLOYEES E6	17	.1	.9	.1	.2	.6	1.8	2.6	4.6	.2	.6
10 TO 19 EMPLOYEES	15	.1	1.9	.2	.3	1.1	1.3	7.1	12.1	.1	1.8
20 TO 49 EMPLOYEES E1	35	1.1	10.0	.9	1.8	6.1	22.1	33.4	54.0	2.9	7.2
50 TO 99 EMPLOYEES	33	2.3	19.3	1.9	4.3	13.9	56.2	81.6	134.7	6.8	22.9
100 TO 249 EMPLOYEES	35	5.3	45.5	4.0	8.5	29.1	99.8	180.9	276.7	15.0	50.0
250 TO 499 EMPLOYEES E1	18	6.2	53.0	4.8	9.7	36.8	137.4	253.1	386.0	16.5	67.3
500 TO 999 EMPLOYEES	6	7.9	69.2	5.8	12.6	46.7	187.8	322.6	428.6	5.0	78.1
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	36	.1	.9	.1	.2	.6	1.5	3.4	4.8	.1	.6
3398-- METAL HEAT TREATING											
ESTABLISHMENTS, TOTAL. E1	953	17.3	158.4	13.5	27.5	107.3	312.9	161.7	472.4	23.3	36.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	286	.6	4.9	.5	.9	3.3	11.5	5.8	17.3	1.4	1.7
5 TO 9 EMPLOYEES E6	194	1.3	10.9	1.0	1.9	7.2	23.4	9.6	32.9	2.3	2.4
10 TO 19 EMPLOYEES E2	206	2.8	25.2	2.2	4.5	16.8	49.4	14.3	63.7	3.9	2.7
20 TO 49 EMPLOYEES	197	6.2	55.7	4.8	9.8	38.0	109.8	36.5	145.7	8.7	5.8
50 TO 99 EMPLOYEES	52	3.4	31.5	2.7	5.7	21.1	59.4	49.2	108.4	4.1	13.0
100 TO 249 EMPLOYEES	15	2.2	22.6	1.7	3.5	15.1	41.3	42.1	82.6	2.5	10.3
250 TO 499 EMPLOYEES	3	.8	7.8	.6	1.2	5.8	18.0	4.2	21.8	.5	.7
ESTABS. COVERED BY ADMIN. RECORD ¹ .	324	1.1	9.8	.9	1.8	6.6	21.2	11.0	32.2	2.0	3.3
3399-- PRIMARY METAL PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL.	167	7.8	75.2	5.9	12.1	50.5	164.6	164.1	347.3	26.9	64.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	12	(Z)	.3	(Z)	.1	.2	1.0	.5	1.5	(Z)	.1
5 TO 9 EMPLOYEES	14	.1	.9	.1	.2	.7	4.4	2.5	6.7	13.4	.6
10 TO 19 EMPLOYEES	37	.5	4.6	.4	.9	3.1	13.3	16.5	29.0	(D)	3.0
20 TO 49 EMPLOYEES	45	1.5	13.8	1.2	2.3	9.3	31.4	22.9	54.2	(D)	6.2
50 TO 99 EMPLOYEES	45	3.2	31.8	2.4	4.9	21.6	66.8	88.8	154.5	9.3	28.3
100 TO 249 EMPLOYEES	12	2.5	23.8	1.8	3.9	15.6	47.7	53.0	100.8	4.1	26.2
250 TO 499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3351	COPPER ROLLING AND DRAWING										
	ENTIRE INDUSTRY	148	37.7	383.1	29.9	63.1	288.1	798.8	2 313.0	3 096.6	65.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	127	30.2	306.3	24.1	50.5	233.0	640.1	1 909.5	2 544.4	48.0
33511	COPPER, COPPER-BASE ALLOY WIRE, NOT ELECTRICAL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	14	1.8	16.9	1.5	3.1	11.9	40.4	51.6	89.9	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	10	.9	6.4	.7	1.4	4.4	16.4	24.4	41.0	.4
33513	COPPER, COPPER-BASE ALLOY ROD, BAR, AND SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	30	7.0	71.2	5.6	11.8	53.8	175.1	864.2	1 043.1	8.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	20	3.3	33.7	2.8	5.7	26.5	94.9	622.2	723.2	4.8
33514	COPPER, COPPER-BASE ALLOY SHEET, STRIP AND PLATE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	31	16.4	178.6	12.7	26.7	131.3	335.5	787.0	1 110.8	31.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	20	7.2	78.3	5.5	11.6	56.6	144.4	354.7	497.2	11.7
33515	COPPER, COPPER-BASE ALLOY PIPE AND TUBE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	43	11.4	107.8	9.2	19.5	84.8	231.6	570.1	796.2	12.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	36	7.5	68.7	6.0	13.0	53.5	152.7	364.9	513.9	9.6
3351 21	COPPER ROLLING, DRAWING, W CASTING DEPT.										
	ENTIRE SUBINDUSTRY	37	23.3	247.3	18.5	39.2	188.8	491.4	1 317.3	1 800.6	39.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33511 21	COPPER, COPPER-BASE ALLOY WIRE, NOT ELECTRICAL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33513 21	COPPER, COPPER-BASE ALLOY ROD, BAR, AND SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	8	3.8	38.6	3.1	6.5	30.5	92.9	334.2	432.4	6.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33514 21	COPPER, COPPER-BASE ALLOY SHEET, STRIP, AND PLATE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	16	12.2	136.2	9.5	19.9	100.8	238.7	607.9	838.6	27.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	9	5.6	61.7	4.3	9.0	45.1	104.1	276.9	379.2	8.9
33515 21	COPPER, COPPER-BASE ALLOY PIPE AND TUBE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	12	7.2	71.4	5.8	12.5	56.6	157.9	371.6	524.8	5.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	7	3.6	35.4	2.9	6.5	27.6	84.1	168.8	249.8	2.6
3351 22	COPPER ROLLING, DRAWING, W/O CAST'G DEPT.										
	ENTIRE SUBINDUSTRY	111	14.4	135.8	11.4	23.9	99.3	307.4	995.7	1 296.0	25.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	93	9.6	87.5	7.7	15.8	65.1	208.3	727.5	937.4	12.3
33511 22	COPPER, COPPER-BASE ALLOY WIRE, NOT ELECTRICAL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	13	1.7	15.8	1.3	2.9	11.0	38.4	48.1	85.1	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33513 22	COPPER, COPPER-BASE ALLOY ROD, BAR AND SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	22	3.3	32.7	2.5	5.3	23.2	82.3	530.0	610.6	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	13	.8	8.5	.7	1.4	6.1	26.5	327.8	355.7	1.0
33514 22	COPPER, COPPER-BASE ALLOY SHEET, STRIP AND PLATE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	4.2	42.4	3.2	6.8	30.5	96.8	179.0	272.2	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	11	1.6	16.6	1.2	2.6	11.5	40.2	77.9	117.9	2.8
33515 22	COPPER, COPPER-BASE ALLOY PIPE AND TUBE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	31	4.2	36.4	3.4	7.0	28.2	73.7	198.5	271.4	6.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	29	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353	ALUMINUM SHEET, PLATE, AND FOIL										
	ENTIRE INDUSTRY	51	31.4	371.3	24.6	51.9	281.9	693.6	2 019.2	2 688.5	91.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	37	23.0	279.2	17.7	38.0	209.5	534.2	1 612.5	2 117.5	70.9
33531	ALUMINUM PLATE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33532	ALUMINUM SHEET (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	32	28.1	336.9	22.0	46.5	256.4	614.5	1 814.4	2 406.7	77.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	22	17.3	211.0	13.4	28.5	160.0	431.5	1 259.8	1 673.3	61.2
33533	PLAIN ALUMINUM FOIL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	13	2.8	29.7	2.2	4.6	22.2	69.7	185.1	253.5	13.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33534	ALUMINUM WELDED TUBE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353 11	ALUM. SHEET, PLATE, FOIL, W MELT'G FACILITIES										
	ENTIRE SUBINDUSTRY	15	17.6	214.1	13.9	29.7	164.4	464.1	1 162.3	1 619.2	51.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33532 11	ALUMINUM SHEET (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	14	17.5	212.6	13.8	29.4	163.3	459.0	1 155.3	1 607.2	51.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	9	9.2	114.0	7.1	15.5	85.7	310.5	745.9	1 047.6	36.9

See footnote at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3353	ALUMINUM SHEET, PLATE, AND FOIL--CONTINUED										
33533	PLAIN ALUMINUM FOIL										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33533	ALUM. SHEET, PLATE, FOIL, W/O MELT'G FACILITIES										
12	ENTIRE SUBINDUSTRY	36	13.7	157.2	10.7	22.2	117.5	229.6	856.9	1 069.2	39.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	24	9.4	110.0	7.2	15.1	83.3	133.0	605.3	725.6	25.6
33531	ALUMINUM PLATE										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33532	ALUMINUM SHEET										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	18	10.7	124.2	8.2	17.1	93.1	155.5	659.1	799.5	25.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	13	8.1	97.0	6.3	13.1	74.3	121.0	513.9	625.7	24.3
33533	PLAIN ALUMINUM FOIL										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	12	2.7	28.3	2.1	4.4	21.2	64.7	178.1	241.6	13.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33534	ALUMINUM WELDED TUBE										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3354	ALUMINUM EXTRUDED PRODUCTS										
	ENTIRE INDUSTRY	180	27.7	239.2	22.1	45.4	174.1	427.6	662.9	1 078.3	32.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	168	22.1	193.5	17.6	36.7	142.5	349.7	553.1	889.9	29.6
33541	EXTRUDED ALUM. ROD, BAR, OTHER EXTRUDED SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	105	21.6	185.7	17.2	35.8	134.6	325.7	530.3	846.6	20.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	89	13.7	109.7	11.2	23.8	80.7	209.6	349.4	550.4	13.9
33542	ALUMINUM EXTRUDED AND DRAWN TUBE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	18	4.9	42.7	3.9	7.6	31.3	85.2	106.5	191.8	9.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	12	1.7	9.8	1.3	2.3	7.2	25.1	37.3	60.0	6.3
3354	ALUMINUM EXTRUDED PROD. W MELTING FACILITIES										
11	ENTIRE SUBINDUSTRY	15	10.9	105.9	8.5	17.9	77.9	167.3	252.4	418.4	13.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33541	EXTRUDED ALUM. ROD, BAR, OTHER EXTR. SHAPES										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	13	8.9	83.0	6.9	14.5	60.4	131.4	203.2	333.5	8.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	6	2.3	17.3	1.9	4.3	13.2	36.4	47.2	83.0	3.0
33542	ALUMINUM EXTRUDED AND DRAWN TUBE										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3354	ALUMINUM EXTRUDED PROD. W/O MELTING FACILITIES										
12	ENTIRE SUBINDUSTRY	165	16.8	133.3	13.6	27.5	96.2	260.3	410.5	659.9	16.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	154	14.2	111.5	11.5	23.3	80.6	213.2	359.9	564.8	17.4
33541	EXTRUDED ALUM. ROD, BAR, OTHER EXTRUDED SHAPES										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	92	12.6	102.7	10.2	21.3	74.2	194.4	327.1	513.1	12.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	83	11.4	92.4	9.3	19.5	67.5	173.1	302.2	467.4	10.9
33542	ALUMINUM EXTRUDED AND DRAWN TUBE										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	16	2.9	19.8	2.3	4.1	13.9	49.3	57.3	106.9	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	11	1.4	6.6	1.1	1.6	4.6	17.5	25.9	41.2	2.1
3355	ALUMINUM, ROLLING AND DRAWING, NEC.										
	ENTIRE INDUSTRY	16	4.6	48.0	3.6	7.2	35.1	57.3	272.2	343.4	9.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	10	3.1	33.7	2.5	4.9	25.2	34.9	176.2	214.5	8.6
33551	ALUMINUM, ALUM.-BASE ALLOY WIRE, ROLLING MILLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33552	ROLLED ALUMINUM ROD, BAR, STRUCTURAL SHAPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	9	3.2	35.2	2.6	5.2	26.3	35.6	196.5	236.4	8.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33553	ALUMINUM INGOT MADE IN ALUMINUM ROLLING MILLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33554	ALUMINUM EXTRUSION BILLET, IN ALUM. ROLL'G MILLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3355	ALUM. ROLL'G, DRAW'G, NEC, W MELT'G FACILITIES										
11	ENTIRE SUBINDUSTRY	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33551	ALUMINUM, ALUM.-BASE ALLOY WIRE, ROLLING MILLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnote at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3355	ALUMINUM, ROLLING AND DRAWING, NEC--CONTINUED										
33552	ROLLED ALUMINUM ROD, BAR, STRUCTURAL SHAPES										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33554	ALUMINUM EXTRUSION BILLET, IN ALUM. ROLL'G MILLS										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3355	ALUM. ROLL'G, DRAW'G, NEC, W/O MELT'G FACIL.										
12	ENTIRE SUBINDUSTRY.	12	1.5	13.1	1.2	2.5	9.6	29.2	101.9	131.5	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	6	.9	8.1	.8	1.5	6.0	17.5	62.2	79.7	2.7
33551	ALUMINUM, ALUM.-BASE ALLOY WIRE, ROLLING MILLS										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33552	ROLLED ALUMINUM ROD, BAR, STRUCTURAL SHAPES										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	7	1.1	9.5	.9	1.8	7.0	18.2	82.6	101.5	2.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33553	ALUMINUM INGOT MADE IN ALUMINUM ROLLING MILLS										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33554	ALUMINUM EXTRUSION BILLET, IN ALUM. ROLL'G MILLS										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3356	NONFERROUS ROLLING AND DRAWING, NEC										
	ENTIRE INDUSTRY	167	18.1	184.2	12.7	25.8	114.1	374.1	892.0	1 244.6	24.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	130	9.0	95.4	7.0	14.4	61.5	210.0	555.9	745.4	13.2
33561	NICKEL AND NICKEL-BASE ALLOY MILL SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	12	5.7	64.6	3.7	7.3	38.3	111.4	233.5	349.4	4.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33562	TITANIUM MILL SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	9	2.5	25.6	1.7	3.2	15.2	44.9	67.8	108.8	1.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33563	PRECIOUS METAL MILL SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	19	2.5	24.9	1.9	4.1	16.6	80.1	336.7	396.0	2.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	15	2.0	19.1	1.5	3.3	12.8	63.0	296.3	341.6	1.5
33569	ALL OTHER NONFERR. METAL MILL SHAPES										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	50	5.7	55.7	4.1	8.5	35.4	110.8	217.0	328.1	12.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	29	2.0	19.4	1.5	3.1	12.2	34.5	73.0	108.8	4.9
3357	NONFERROUS WIREDRAWING, INSULATING										
	ENTIRE INDUSTRY	340	68.8	645.2	52.8	110.4	452.1	1 447.2	2 983.6	4 410.8	149.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	331	63.6	598.4	49.4	102.9	420.6	1 364.4	2 648.5	3 982.6	146.3
33571	ALUM., ALUM.-BASE ALLOY WIRE (WIREDRAWING PLANTS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	1.7	17.9	1.3	2.6	12.2	11.7	140.6	150.8	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	9	.7	7.2	.5	1.1	4.6	10.1	59.0	67.9	.4
33572	COPPER, COPPER-BASE ALLOY WIRE FOR ELEC. TRANS										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	23	4.2	37.9	3.4	7.3	29.3	79.2	334.3	413.1	4.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	14	1.9	16.2	1.6	3.3	11.7	29.9	91.8	123.6	2.1
33573	OTHER BARE NONFERROUS METAL WIRE (WIREDRAWERS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	11	1.4	14.9	1.0	2.3	10.1	27.6	41.1	65.4	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33574	COMMUNICATION WIRE AND CABLE										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	74	24.5	258.0	18.4	38.3	176.9	626.4	876.3	1 484.3	93.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	62	17.7	189.1	13.2	27.3	129.7	495.7	694.9	1 175.1	81.4
33575	NONFER. WIRE CLOTH, OTH. WOVEN WIRE (WIREDRAWERS)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	10	1.4	14.0	1.1	2.4	9.8	24.4	17.0	41.1	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	10	1.4	14.0	1.1	2.4	9.8	24.4	17.0	41.1	2.2
33576	APPLIANCE WIRE, CORD, ETC., IN INSULATING ESTABS.										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	22	6.8	48.5	5.8	11.0	36.6	125.0	158.5	274.6	10.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	13	3.4	22.5	3.0	5.5	16.8	47.8	58.0	104.6	1.6
33577	MAGNET WIRE										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	32	5.2	51.0	4.2	9.1	37.7	150.2	334.3	477.7	6.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	29	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33578	POWER WIRE AND CABLE										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	34	8.3	75.9	6.2	13.1	53.5	160.5	299.8	463.6	13.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	20	3.9	34.3	3.0	6.1	23.5	84.6	135.2	216.4	6.7
33579	OTHER INSULATED WIRE AND CABLE, NEC										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	67	15.2	126.2	11.3	24.1	85.7	245.2	772.2	1 032.6	18.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	44	5.5	46.4	4.3	9.2	32.2	106.4	311.9	426.3	11.1
3357	NONFERROUS WIREDRAWING, INSULATING, ROD MILL										
11	ENTIRE SUBINDUSTRY.	36	12.7	124.1	10.1	21.2	95.6	283.0	677.5	951.5	17.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnote at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons: e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3357	NONFERROUS WIREDRAWING AND INSULATING--CON.										
33571	ALUM., ALUM.-BASE ALLOY WIRE (WIREDRAWING PLANTS)										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33572	COPPER, COPPER-BASE ALLOY WIRE FOR ELEC. TRANS										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33573	OTHER BARE NONFERROUS METAL WIRE (WIREDRAWERS)										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33574	COMMUNICATION WIRE AND CABLE										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33575	NONFER. WIRE CLOTH, OTH. WOVEN WIRE (WIREDRAWERS)										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33576	APPLIANCE WIRE, CORD, ETC., IN INSULATING ESTABS.										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33577	MAGNET WIRE										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	10	2.1	20.8	1.8	3.7	16.7	59.5	134.8	190.5	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33578	POWER WIRE AND CABLE										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	4	2.0	18.0	1.5	2.8	12.0	21.1	63.1	90.8	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33579	OTHER INSULATED WIRE AND CABLE, NEC										
11	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	10	2.9	24.1	2.4	5.2	18.9	45.8	172.6	216.0	4.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	4	.7	5.5	.5	1.1	3.7	14.3	53.7	69.9	1.8
3357	NONFER. WIREDRAWING, INSULATING W/OD ROD MILL OR W/INS										
12	ENTIRE SUBINDUSTRY.	22	2.5	23.5	2.1	4.4	16.7	41.8	142.8	185.8	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	22	2.5	23.5	2.1	4.4	16.7	41.8	142.8	185.8	3.7
33571	ALUM., ALUM.-BASE ALLOY WIRE (WIREDRAWING PLANTS)										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	4	.3	3.0	.2	.5	2.1	2.5	36.5	37.9	.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	4	.3	3.0	.2	.5	2.1	2.5	36.5	37.9	.2
33572	COPPER, COPPER-BASE ALLOY WIRE FOR ELEC. TRANS										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	8	1.3	12.0	1.1	2.3	8.4	21.4	81.1	105.3	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33573	OTHER BARE NONFERROUS METAL WIRE (WIREDRAWERS)										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	5	.2	1.8	.2	.4	1.4	3.9	15.6	19.6	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33575	NONFER. WIRE CLOTH, OTH. WOVEN WIRE (WIREDRAWERS)										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	4	.7	6.6	.5	1.2	4.6	13.7	9.2	22.2	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	4	.7	6.6	.5	1.2	4.6	13.7	9.2	22.2	1.5
33577	MAGNET WIRE										
12	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3357	NONFER. WIREDRAWING, INSULATING W/OD ROD MILL, W/INS										
13	ENTIRE SUBINDUSTRY.	92	30.4	297.4	23.2	47.9	204.5	673.7	1 310.2	1 974.3	62.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	92	30.4	297.4	23.2	47.9	204.5	673.7	1 310.2	1 974.3	62.0
33571	ALUM., ALUM.-BASE ALLOY WIRE (WIREDRAWING PLANTS)										
13	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	5	.9	9.6	.7	1.3	6.8	4.5	78.2	78.3	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33572	COPPER, COPPER-BASE ALLOY WIRE FOR ELEC. TRANS										
13	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33574	COMMUNICATION WIRE AND CABLE										
13	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	30	14.6	158.6	10.9	22.6	107.2	382.2	547.6	920.7	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33576	APPLIANCE WIRE, CORD, ETC., IN INSULATING ESTABS.										
13	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	8	2.8	21.8	2.4	4.5	15.8	47.8	54.2	100.4	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnote at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3357	NONFERROUS WIREDRAWING AND INSULATING--CON.										
33577	MAGNET WIRE										
13	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	14	1.9	17.2	1.5	3.4	13.3	64.3	139.4	201.9	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33578	POWER WIRE AND CABLE										
13	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	11	3.2	30.1	2.6	5.4	22.5	58.4	132.0	191.9	4.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	5	1.3	10.9	1.0	2.0	7.8	23.8	44.2	67.3	1.4
33579	OTHER INSULATED WIRE AND CABLE, NEC										
13	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	20	6.3	55.1	4.5	9.4	35.1	114.5	315.0	430.4	5.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	10	2.3	20.9	1.7	3.6	14.3	45.6	144.5	193.3	2.6
3357	NONFER, WIREDRAWING, INSULATING W/O ROD MILL OR INS										
14	ENTIRE SUBINDUSTRY.	190	23.2	200.3	17.6	36.9	135.2	448.8	853.2	1 299.2	46.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	181	18.6	158.8	14.5	30.3	108.5	382.4	590.1	957.8	43.5
33571	ALUM., ALUM.-BASE ALLOY WIRE (WIREDRAWING PLANTS)										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	.2	2.5	.2	.4	1.6	7.0	9.3	15.8	.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33572	COPPER, COPPER-BASE ALLOY WIRE FOR ELEC. TRANS										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	9	1.0	9.2	.8	1.7	7.0	25.9	95.7	120.5	1.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33573	OTHER BARE NONFERROUS METAL WIRE (WIREDRAWERS)										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	4	.9	11.0	.6	1.5	7.4	19.0	22.2	38.0	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33574	COMMUNICATION WIRE AND CABLE										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	43	6.6	59.6	4.8	10.1	37.8	131.3	166.4	295.5	18.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	34	3.7	32.9	2.7	5.7	20.3	73.7	121.8	194.1	13.3
33575	NONFER. WIRE CLOTH, OTH. WOVEN WIRE (WIREDRAWERS)										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	5	.5	5.4	.3	.7	3.4	6.8	4.1	11.1	.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	5	.5	5.4	.3	.7	3.4	6.8	4.1	11.1	.3
33576	APPLIANCE WIRE, CORD, ETC., IN INSULATING ESTABS.										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	14	3.8	25.8	3.3	6.3	20.3	75.4	100.3	168.5	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	10	2.2	12.4	1.9	3.4	9.9	21.2	31.8	52.8	1.0
33577	MAGNET WIRE										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33578	POWER WIRE AND CABLE										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	16	2.2	21.5	1.7	3.6	14.7	60.6	88.1	144.5	7.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	11	1.3	11.9	1.0	2.1	8.3	37.1	54.7	88.5	4.9
33579	OTHER INSULATED WIRE AND CABLE, NEC										
14	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	35	5.9	46.8	4.4	9.5	31.6	84.0	282.6	383.4	8.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	28	2.5	19.7	2.0	4.4	14.1	45.5	111.7	160.3	6.3
3398	METAL HEAT TREATING										
	ENTIRE INDUSTRY	953	17.3	158.4	13.5	27.5	107.3	312.9	161.7	472.4	23.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	868	15.3	140.5	11.9	24.3	95.1	279.6	150.1	427.5	21.7
3399	PRIMARY METAL PRODUCTS, NEC										
	ENTIRE INDUSTRY	167	7.8	75.2	5.9	12.1	50.5	164.6	184.1	347.3	26.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	158	7.2	69.7	5.4	11.1	46.6	149.5	166.8	315.9	24.1
33991	METAL POWDERS AND PASTE										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	87	4.9	47.1	3.6	7.4	29.3	99.5	141.2	241.4	19.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	81	4.5	43.2	3.3	6.7	26.6	88.0	131.9	220.8	18.4
33992	OTH. PRIMARY MET. PRODS. (NAILS, SPIKES, STAPLES)										
	(PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	70	2.6	25.6	2.0	4.2	19.3	59.7	31.7	90.2	5.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	67	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3351	Copper rolling and drawing.....1972..	3,096.6	2,629.5	339.1	128.0	89	2,825.0	2,629.5	195.5	93
	1967..	2,391.1	2,062.2	223.0	105.9	90	2,216.8	2,062.2	154.6	93
3353	Aluminum sheet, plate, and foil.....1972..	2,688.5	2,214.7	389.6	84.2	85	2,238.0	2,214.7	23.3	99
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3354	Aluminum extruded products.....1972..	1,078.3	902.8	148.6	26.9	85	1,026.4	902.8	123.6	88
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3355	Aluminum rolling and drawing, n.e.c.....1972..	343.4	286.8	45.9	10.7	86	686.6	286.8	399.8	142
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3356	Nonferrous rolling and drawing, n.e.c.....1972..	1,244.6	990.4	191.6	62.6	84	1,135.1	990.4	144.7	287
	1967..	984.0	854.5	108.0	21.5	89	1,012.0	854.5	157.5	284
3357	Nonferrous wiredrawing and insulating.....1972..	4,410.8	4,002.2	253.5	155.1	94	4,500.1	4,002.2	497.9	389
	1967..	3,591.4	3,247.9	242.8	100.7	93	3,650.9	3,247.9	403.0	389
3398	Metal heat treating.....1972..	472.4	⁴ 462.9	8.2	1.3	(⁴)	(⁵)	462.9	(⁵)	(⁵)
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3399	Primary metal products, n.e.c.....1972..	347.3	307.0	28.0	12.3	92	416.5	307.0	109.5	74
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

¹Included in this industry is aluminum and aluminum-base alloy wire (including ACSR) which is also primary to industry 3357, Nonferrous Wiredrawing and Insulating. A coverage ratio computed on the basis of including both industries to which aluminum and aluminum-base alloy wire (including ACSR) is primary in 1972 would total 65 percent: 42 percent by industry 3355 and 23 percent by industry 3357. The remaining 35 percent was shipped by establishments in other industries. For 1967, the comparable percentages were 95 percent: 89 percent by 1967 industry 3352 and 6 percent by industry 3357. The remaining 5 percent was shipped by establishments in other industries.

²Included in this industry is "other nonferrous metal wire" which is also primary to industry 3357, Nonferrous Wiredrawing and Insulating. A coverage ratio computed on the basis of including both industries to which nonferrous metal wire is primary in 1972 would total 91 percent: 87 percent by industry 3356 and 4 percent by industry 3357. The remaining 9 percent was shipped by establishments in other industries. For 1967, the comparable percentages were 88 percent: 84 percent by industry 3356 and 4 percent by industry 3357. The remaining 12 percent was shipped by establishments in other industries.

³Included in this industry are aluminum and aluminum-based alloy wire (including ACSR), other nonferrous metal wire, nonferrous woven wire products, and appliance wire and cord and flexible cord sets which are also primary, respectively, to industries 3355, Aluminum Rolling and Drawing, N.E.C.; 3356, Nonferrous Rolling and Drawing, N.E.C.; 3496, Miscellaneous Fabricated Wire Products; and 3699, Electrical Equipment and Supplies, N.E.C. A coverage ratio computed on the basis of including the industries to which these products are primary in 1972 would total 92 percent: 89 percent by industry 3357 and 3 percent by industries 3355, 3356, 3496, and 3699. The remaining 8 percent was shipped by establishments in other industries. For 1967, the comparable percentages were 94 percent: 89 percent by industry 3357 and 5 percent by industries 3356, 3496, 3699, and 1967 industry 3352. The remaining 6 percent was shipped by establishments in other industries.

⁴Specialization ratio is not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Receipts are treated as primary products for this industry.

⁵Data on receipts for metal heat treating are not available for establishments classified outside industry 3398.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Copper rolling and drawing (SIC 3351)	Aluminum sheet, plate, and foil (SIC 3353)	Aluminum extruded products (SIC 3354)	Aluminum rolling and drawing, n.e.c. (SIC 3355)	Nonferrous rolling and drawing, n.e.c. (SIC 3356)	Nonferrous wire-drawing and insulating (SIC 3357)	Metal heat treating (SIC 3398)	Primary metal products, n.e.c. (SIC 3399)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	3,096.6	2,688.5	1,078.3	343.4	1,244.6	4,410.8	472.4	347.3	(X)
33511	Copper and copper-base alloy wire (bare and tinned) for purposes other than electrical transmission.....	157.9	(100-200)	-	-	-	(5-10)	(5-10)	-	-	31.0
33513	Copper and copper-base alloy rod, bar, and shapes.....	1,170.9	1,032.4	-	-	-	(2-5)	124.1	-	-	(10-20)
33514	Copper and copper-base alloy sheet, strip, and plate.....	705.9	702.7	-	-	-	.1	-	-	-	3.1
33515	Copper and copper-base alloy pipe and tube.....	761.8	752.5	-	-	-	(5-10)	-	-	.1	(under 2)
33510	Copper rolling and drawing, n.s.k.....	28.5	(20-50)	-	-	-	-	-	-	-	(under 2)
33531	Aluminum plate.....	89.5	-	(50-100)	-	-	-	-	-	-	(under 2)
33532	Aluminum sheet.....	1,897.4	(10-20)	1,871.3	(10-20)	-	(under 2)	-	-	(under 2)	(2-5)
33533	Plain aluminum foil.....	216.8	-	212.3	(under 2)	-	-	-	-	-	3.0
33534	Aluminum welded tube.....	34.3	(2-5)	(20-50)	(under 2)	-	-	-	-	-	-
33541	Extruded aluminum rod, bar, and other extruded shapes.....	781.5	(5-10)	(10-20)	696.7	(10-20)	(2-5)	-	-	(under 2)	40.0
33542	Aluminum extruded and drawn tube.....	212.4	16.7	(2-5)	181.9	(under 2)	-	-	-	-	8.7
33540	Aluminum extruded products, n.s.k.....	32.5	-	-	24.2	-	-	-	-	-	8.3
33551	Aluminum and aluminum-base alloy wire (including ACSR), made in aluminum rolling mills.....	214.6	(2-5)	(under 2)	-	61.0	(2-5)	146.5	-	-	(under 2)
33552	Aluminum rod, bar (including continuous cast), and structural shapes.....	303.0	(5-10)	-	-	178.7	-	(50-100)	-	-	63.4
33553	Aluminum ingot, produced in aluminum rolling mills.....	1,970.7	-	(50-100)	(2-5)	(20-50)	-	-	-	-	1,850.7
33347											
33417											
33554	Aluminum extrusion billet, produced in aluminum rolling mills.....	319.4	(under 2)	(5-10)	11.8	(20-50)	-	-	-	-	272.8
33348											
33418											
33561	Nickel and nickel-base alloy mill shapes (including monel).....	270.4	10.1	-	-	-	258.2	(under 2)	-	-	(under 2)
33562	Titanium mill shapes.....	111.1	-	-	(5-10)	-	98.7	-	-	-	(2-5)
33563	Precious metal mill shapes.....	364.0	-	-	-	-	356.5	-	-	-	7.5
33569	All other nonferrous metal mill shapes.....	344.6	.8	-	(2-5)	(under 2)	233.3	(20-50)	-	(2-5)	60.2
33573											
33560	Nonferrous rolling and drawing, n.e.c., n.s.k.....	45.0	(under 2)	-	-	-	43.7	-	-	(under 2)	-
33572	Copper and copper-base alloy wire (including strand and cable), bare and tinned, for electrical transmission.....	353.1	38.4	-	-	-	-	310.7	-	-	4.0
33574	Communication wire and cable.....	1,316.0	-	-	-	-	-	1,303.1	-	-	12.9
33575	Nonferrous wire cloth and other woven wire products made in nonferrous wire-drawing plants.....	83.7	(5-10)	(under 2)	-	-	-	33.9	-	-	140.8
34965											
33576	Appliance wire and cord and flexible cord sets.....	366.3	-	-	-	-	-	262.9	-	-	2103.4
36996											
33577	Magnet wire.....	548.8	(10-20)	-	-	-	-	478.7	-	-	52.6
33578	Power wire and cable.....	499.7	-	-	-	(10-20)	-	480.8	-	-	(5-10)
33579	Other insulated wire and cable, n.e.c.....	956.5	(10-20)	-	-	(5-10)	-	890.6	-	-	42.0
33570	Nonferrous wire-drawing and insulating, n.s.k.....	40.5	-	-	-	-	-	(20-50)	(under 2)	-	-
33980	Heat treating of metal for the trade.....	(³)	-	-	-	-	-	-	462.9	-	(³)
33991	Metal powders and paste.....	322.7	-	-	(under 2)	-	19.6	-	(under 2)	222.9	79.4
33992	Other primary metal products, including nonferrous nails, brads, spikes, and staples.....	93.8	-	-	(under 2)	(under 2)	(under 2)	-	.5	84.1	6.0
	Other product shipments by 4-digit product group:										
2591	Drapery hardware and blinds and shades.....	(X)	-	(2-5)	-	-	-	-	-	-	(X)
2651	Folding paperboard boxes.....	(X)	-	(10-20)	-	-	-	-	-	-	(X)
2754	Commercial printing, gravure.....	(X)	-	(10-20)	-	-	-	-	-	-	(X)
3079	Miscellaneous plastics products.....	(X)	(2-5)	-	(under 2)	-	-	2.2	(under 2)	(under 2)	(X)
3255	Clay refractories.....	(X)	-	-	-	-	(2-5)	-	-	-	(X)
3312	Blast furnaces and steel mills.....	(X)	(2-5)	-	(under 2)	-	-	-	-	.1	(X)
3315	Steel wire and related products.....	(X)	(under 2)	-	-	-	-	14.1	-	-	(X)
3316	Cold finishing of steel shapes.....	(X)	(under 2)	-	(under 2)	(under 2)	-	(5-10)	-	(under 2)	(X)
3317	Steel pipe and tubes.....	(X)	(2-5)	-	-	-	(2-5)	-	-	-	(X)
3334	Primary aluminum.....	(X)	-	-	-	(5-10)	-	-	-	-	(X)
3339	Primary nonferrous metals, n.e.c.....	(X)	(10-20)	-	-	-	(50-100)	-	-	(2-5)	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Copper rolling and drawing (SIC 3351)	Aluminum sheet, plate, and foil (SIC 3353)	Aluminum extruded products (SIC 3354)	Aluminum rolling and drawing, n.e.c. (SIC 3355)	Nonferrous rolling and drawing, n.e.c. (SIC 3356)	Nonferrous wire-drawing and insulating (SIC 3357)	Metal heat treating (SIC 3398)	Primary metal products, n.e.c. (SIC 3399)	Other industries
	Shipments and miscellaneous receipts--Continued										
	Other product shipments by 4-digit product group:										
3341	Secondary nonferrous metals.....	(X)	(50-100)	-	(under 2)	(under 2)	5.1	-	(under 2)	(under 2)	(X)
3362	Brass, bronze, and copper foundries...	(X)	10.9	-	-	-	-	-	-	(under 2)	(X)
3369	Nonferrous foundries, n.e.c.....	(X)	-	-	-	-	(10-20)	-	-	-	(X)
3432	Plumbing fittings and brass goods.....	(X)	-	-	(5-10)	-	-	-	-	-	(X)
3441	Fabricated structural metal.....	(X)	-	-	-	(2-5)	-	-	-	-	(X)
3442	Metal doors, sash, and trim.....	(X)	-	-	39.5	-	-	-	-	-	(X)
3443	Fabricated platework (boiler shops)...	(X)	-	(under 2)	-	-	(2-5)	-	-	-	(X)
3444	Sheet metalwork.....	(X)	-	71.4	(5-10)	-	(under 2)	-	-	-	(X)
3448	Prefabricated metal buildings.....	(X)	-	-	(2-5)	-	-	-	-	-	(X)
3451	Screw machine products.....	(X)	(5-10)	-	(under 2)	-	-	-	-	-	(X)
3463	Nonferrous forgings.....	(X)	32.6	(2-5)	(10-20)	-	(under 2)	-	-	-	(X)
3465	Automotive stampings.....	(X)	(5-10)	(2-5)	-	-	-	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	(under 2)	(2-5)	(under 2)	-	(under 2)	(under 2)	(under 2)	-	(X)
3471	Plating and polishing.....	(X)	-	-	3.9	-	(10-20)	(under 2)	(under 2)	-	(X)
3479	Metal coating and allied services.....	(X)	-	(5-10)	-	-	(under 2)	-	(under 2)	(under 2)	(X)
3489	Ordnance and accessories, n.e.c.....	(X)	-	-	(2-5)	-	-	-	-	-	(X)
3494	Valves and pipe fittings.....	(X)	(2-5)	-	-	-	-	-	-	-	(X)
3496	Miscellaneous fabricated wire products.	(X)	(under 2)	-	-	(under 2)	(2-5)	(under 2)	-	-	(X)
3497	Metal foil and lead.....	(X)	-	169.1	-	-	-	-	-	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(5-10)	(under 2)	(under 2)	-	(under 2)	(2-5)	-	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	-	-	-	-	(2-5)	(10-20)	-	-	(X)
3585	Refrigeration and heating equipment...	(X)	(5-10)	-	-	-	(2-5)	-	-	-	(X)
3599	Machinery, except electrical, n.e.c....	(X)	(5-10)	-	-	-	-	-	(under 2)	-	(X)
3621	Motors and generators.....	(X)	(2-5)	-	-	-	-	-	-	(under 2)	(X)
3643	Current-carrying wiring devices.....	(X)	-	-	-	-	(2-5)	-	-	-	(X)
3644	Noncurrent-carrying wiring devices....	(X)	(5-10)	-	(under 2)	-	-	3.6	-	-	(X)
3661	Telephone and telegraph apparatus....	(X)	-	-	-	-	-	(20-50)	-	-	(X)
3662	Radio and TV communication equipment..	(X)	-	-	-	-	(under 2)	(2-5)	-	-	(X)
3678	Electronic connectors.....	(X)	-	-	-	-	-	(2-5)	-	-	(X)
3679	Electronic components, n.e.c.....	(X)	(under 2)	-	-	-	(5-10)	(under 2)	-	-	(X)
3699	Electrical equipment and supplies, n.e.c.	(X)	-	-	-	-	(2-5)	-	-	-	(X)
3724	Aircraft engines and engine parts.....	(X)	-	-	-	-	(5-10)	-	-	-	(X)
3728	Aircraft equipment, n.e.c.....	(X)	-	-	-	-	(5-10)	-	(under 2)	-	(X)
3824	Fluid meters and counting devices.....	(X)	-	-	-	-	-	(2-5)	-	-	(X)
3915	Jewelers' materials and lapidary work..	(X)	-	-	-	-	(2-5)	-	-	-	(X)
	Miscellaneous receipts.....	(X)	128.0	84.2	26.9	10.7	62.6	155.2	72.4	12.4	(X)
99980 13	Sales of scrap and refuse.....	(X)	15.4	30.0	11.8	5.4	7.9	3.6	.4	.9	(X)
93000 00	Other contract work.....	(X)	4.0	1.2	1.8	1.8	3.7	1.9	38.1	2.1	(X)
99980 61	Receipts for repair work.....	(X)	.2	-	-	-	-	-	-	-	(X)
99980 98	Other.....	(X)	93.1	13.3	8.3	3.0	16.5	84.8	10.2	2.9	(X)
99989 00	Resales.....	(X)	15.4	39.7	5.0	.5	34.5	64.7	23.5	6.4	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries						
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued							
3351-	3341 Secondary nonferrous metals.....	(20-50)	3357-	3079 Miscellaneous plastics products.....	(10-20)						
	3621 Motors and generators.....	(10-20)		3315 Steel wire and related products.....	11.1						
	3661 Telephone and telegraph apparatus.....	(5-10)		3541 Secondary nonferrous metals.....	(50-100)						
3354-	3079 Miscellaneous plastics products.....	(2-5)		3621 Motors and generators.....	(20-50)						
	3334 Primary aluminum.....	(10-20)		3641 Electric lamps.....	(2-5)						
	3411 Metal cans.....	(5-10)		3643 Current-carrying wiring devices.....	(50-100)						
	3442 Metal doors, sash, and trim.....	(10-20)		3662 Radio and TV communication equipment.....	(2-5)						
	3494 Valves and pipe fittings.....	(2-5)		3694 Engine electrical equipment.....	(10-20)						
	3499 Fabricated metal products, n.e.c.....	(5-10)		3714 Motor vehicle parts and accessories.....	(20-50)						
3355-	3334 Primary aluminum.....	(50-100)	3398-	3471 Plating and polishing.....	2.8						
				3479 Metal coating and allied services.....	3.7						
3356-	2819 Industrial inorganic chemicals, n.e.c.....	(10-20)	3399-	3295 Minerals, ground or treated.....	(2-5)						
	3312 Blast furnaces and steel mills.....	(10-20)		3331 Primary copper.....	(2-5)						
	3317 Steel pipe and tubes.....	(10-20)		3333 Primary zinc.....	(2-5)						
	3325 Steel foundries, n.e.c.....	(2-5)		3334 Primary aluminum.....	(10-20)						
	3332 Primary lead.....	(5-10)		3369 Nonferrous foundries, n.e.c.....	(2-5)						
	3341 Secondary nonferrous metals.....	(10-20)		3545 Machine tool accessories.....	(20-50)						
	3661 Telephone and telegraph apparatus.....	(5-10)		3623 Welding apparatus, electric.....	(2-5)						
	3694 Engine electrical equipment.....	(2-5)		3624 Carbon and graphite products.....	(2-5)						
				3694 Engine electrical equipment.....	(20-50)						

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

¹Includes total for product class 34965, nonferrous wire cloth and other woven nonferrous wire products, which is primary to industry 3357.

²Includes total for product class 36996, appliance wire and cord and flexible cord sets, which is primary to industry 3357.

³Data on receipts for metal heat treating are not available for establishments classified outside industry 3398.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹	Total product shipments including interplant transfers ²		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in manufacture of other products	Shipments of products manufactured from materials owned by others
		Quantity	Value	Quantity	Value	Quantity	Value			
		(1,000 short tons)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)		
1972										
3351- --	ROLLED AND DRAWN COPPER, TOTAL ³	(X)	(X)	2,825.0	(X)	(NA)	(X)	(NA)	(X)	(X)
33511 --	Copper and Copper-Base Alloy Wire (Bare and Tinned) for Purposes Other Than Electrical Transmission.....	(X)	(X)	157.9	(D)	(D)	(D)	(D)	(X)	(X)
33511 11	Unalloyed.....	8.5	9.7	18.4	9.7	18.4	-	-	(D)	-
33511 31	Alloyed.....	74.2	74.4	132.8	(D)	(D)	(D)	(D)	(D)	(D)
33511 00	Copper and copper-base alloy wire (bare and tinned) for purposes other than electrical transmission, n.s.k.....	(X)	(X)	6.7	(X)	(NA)	(X)	(NA)	(X)	(X)
33513 --	Copper and Copper-Base Alloy Rod, Bar, and Shapes ⁴	1,711.5	1,213.5	1,170.9	819.3	712.5	394.2	458.4	113.8	375.8
33513 11	Unalloyed copper bars and shapes and nonelectrical rod.....	1,051.3	660.3	618.0	376.4	279.0	283.9	339.0	101.8	298.4
33513 32	Copper-base alloy rod, bar, and shapes.....	660.2	553.2	552.9	442.9	433.5	110.3	119.4	12.0	77.4
33514 --	Copper and Copper-Base Alloy Sheet, Strip, and Plate ⁴	645.3	539.9	705.9	460.8	619.4	79.1	86.5	(D)	(D)
33514 13	Unalloyed copper flat products (sheet, strip, plate, foil, etc.).....	113.3	114.9	175.8	108.1	167.6	6.8	8.2	(D)	(D)
33514 35	Copper-base alloy flat products (sheet, strip, plate, and foil), including military cups and discs (net weight).....	532.0	425.0	530.1	352.7	451.8	72.3	78.3	(D)	(D)
33515 --	Copper and Copper-Base Alloy Pipe and Tube ⁴	(X)	(X)	761.8	(D)	(D)	(D)	(D)	(X)	(X)
33515 16	Unalloyed: Pipe and tube, plumbing.....	251.5	253.7	361.3	247.8	353.0	5.9	8.3	(D)	(D)
33515 18	Other pipe and tube.....	122.4	108.5	171.0	93.9	151.6	14.6	19.4	(D)	(D)
33515 36	Copper-base alloy: Pipe and tube, plumbing.....	16.1	18.4	32.7	(D)	(D)	(D)	(D)	(D)	(D)
33515 38	Other pipe and tube.....	89.5	90.0	166.2	(D)	(D)	(D)	(D)	(D)	(D)
33515 00	Copper and copper-base alloy pipe and tube, n.s.k.....	(X)	(X)	30.6	(X)	(NA)	(X)	(NA)	(X)	(X)
33510 00	Rolled and drawn copper, n.s.k., represents principally establishments with 10 employees or more in 1972. (See note.).....	(X)	(X)	26.0	(X)	(NA)	(X)	(NA)	(X)	(X)
33510 02	Rolled and drawn copper, n.s.k., represents principally establishments with less than 10 employees in 1972. (See note.).....	(X)	(X)	2.5	(X)	(NA)	(X)	(NA)	(X)	(X)
3353- --	ALUMINUM SHEET, PLATE, AND FOIL, TOTAL ⁵	(NA)	(NA)	2,238.0	(NA)	(D)	(NA)	(D)	(NA)	(NA)
33531 --	Aluminum Plate (0.25 Inch and Over, Including Continuous Cast) ⁴	84.8	77.7	89.5	60.2	71.9	17.5	17.6	(D)	(D)
33531 13	Heat-treatable.....	40.7	40.1	51.5	(D)	(D)	(D)	(D)	-	-
33531 15	Nonheat-treatable.....	44.1	37.6	38.0	(D)	(D)	(D)	(D)	(D)	(D)
33532 --	Aluminum Sheet (Including Continuous Cast) ⁴	(NA)	(NA)	1,897.4	(NA)	(NA)	(NA)	(NA)	(D)	(D)
33532 23	Flat, heat-treatable.....	48.0	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33532 24	Flat, nonheat-treatable, bare.....	311.3	307.8	251.5	289.3	238.0	18.5	13.5	(D)	(D)
33532 26	Flat, nonheat-treatable, precoated (including only permanent finishes such as enameling and vinyl coating, but excluding coatings which are applied only for temporary protection).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
33532 27	Coiled, heat-treatable.....	59.6	58.6	43.9	(D)	(D)	(D)	(D)	-	-
33532 31	Coiled, nonheat-treatable, bare.....	2,317.6	1,981.9	1,320.1	1,203.9	846.1	778.0	474.0	-	15.0
33532 33	Coiled, nonheat-treatable, precoated (including only permanent finishes such as enameling and vinyl coating, but excluding coatings which are applied only for temporary protection).....	258.5	252.8	210.1	163.7	139.2	89.1	70.9	-	(D)
33532 00	Aluminum plate and sheet, n.s.k.....	(X)	(X)	10.2	(X)	(NA)	(X)	(NA)	(X)	(X)
33533 51	Plain Aluminum Foil (Under .006 Inch) ⁶	365.1	230.2	216.8	151.0	146.6	79.2	70.2	134.6	(D)
33534 55	Aluminum Welded Tube ⁴	38.0	37.8	34.3	(D)	(D)	(D)	(D)	-	-

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹	Total product shipments including interplant transfers ²		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in manufacture of other products	Shipments of products manufactured from materials owned by others	
			Quantity	Value	Quantity	Value	Quantity	Value			
		(1,000 short tons)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)			
1972											
3354- --	ALUMINUM EXTRUDED PRODUCTS, TOTAL ⁵	(X)	(X)	1,026.4	(X)	(NA)	(X)	(NA)	(X)	(X)	
33541 --	Extruded Aluminum Rod, Bar, and Other Extruded Shapes.....	(X)	(X)	781.5	(X)	(NA)	(X)	(NA)	(X)	(X)	
	Extruded rod and bar:										
33541 15	Alloys other than 2,000 and 7,000 series.....	163.2	169.0	127.8	203.7	150.5	41.7	31.4	(D)	{ (D) -	
33541 18	Alloys in 2,000 and 7,000 series.....	56.3	76.4	54.1							
	Other extruded shapes, except tube:				612.5	553.3	37.7	27.5	(D)	{ (D) -	
33541 25	Alloys other than 2,000 and 7,000 series.....	582.2	610.3	517.5							
33541 28	Alloys in 2,000 and 7,000 series.....	40.1	39.9	63.3							
33541 00	Extruded aluminum rod, bar, and other extruded shapes, n.s.k.....	(X)	(X)	18.8	(X)	(NA)	(X)	(NA)	(X)	(X)	
33542 --	Aluminum Extruded and Drawn Tube ³	(X)	(X)	212.4	(X)	(NA)	(X)	(NA)	(X)	{ (X) (D) - (X)	
33542 51	Extruded.....	126.3	156.5	132.5	192.7	187.1	9.9	11.6	(D)		
33542 53	Drawn.....	(D)	46.1	66.2							
33542 00	Aluminum tube, n.s.k.....	(X)	(X)	13.7	(X)	(NA)	(X)	(NA)	(X)	(X)	
33540 00	Aluminum extruded products, n.s.k., for estab- lishments principally with 10 employees or more in 1972. (See note.).....	(X)	(X)	727.6	(X)	(NA)	(X)	(NA)	(X)	(X)	
33540 02	Aluminum extruded products, n.s.k., for estab- lishments with less than 10 employees in 1972. (See note.).....	(X)	(X)	74.9	(X)	(NA)	(X)	(NA)	(X)	(X)	
3355- --	ROLLED AND DRAWN ALUMINUM, N.E.C., TOTAL ⁵ ...	(NA)	(X)	684.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
33551 --	{ Aluminum and Aluminum-Base Alloy Wire and Cable (Including ACSR).....	455.9	330.6	214.6	(X)	(D)	(X)	(D)	(X)	(X)	
33571 --		Made in Industry 3355 (Aluminum Rolling and Drawing, N.E.C.).....	141.1	87.1	61.0	(X)	(D)	(X)	(D)	(X)	(X)
33571 --		Made in Industry 3357 (Nonferrous Wire- drawing, Etc.) and Other Industries.....	314.8	243.5	153.6	(X)	(D)	(X)	(D)	(X)	(X)
33551 11	{ Bare Wire for Electrical Transmission.....	171.8	84.0	67.7	43.6	35.6	40.3	32.1	64.8	-	
33571 11		Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	46.5	34.3	13.6	8.1	32.9	26.2	(D)	-
33571 11		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	(D)	37.4	33.4	30.0	27.5	7.4	5.9	(D)	-
33551 51	{ Bare wire for other than electrical transmission.	66.2	28.7	31.5	24.8	27.2	3.9	4.3	(D)	(D)	
33571 51		Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	10.6	12.5	(D)	(D)	(D)	(D)	(D)	(D)
33571 51		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	(D)	18.1	19.0	(D)	(D)	(D)	(D)	(D)	-
33551 62	{ Aluminum cable, steel reinforced (ACSR) (gross weight).....	170.0	160.7	82.0	152.9	78.7	7.8	3.3	(D)	-	
33571 61		Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
33551 62		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
33551 69	{ Other aluminum cable, bare.....	75.9	64.4	34.6	(D)	(D)	(D)	(D)	(D)	-	
33571 65		Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	(D)	(D)	(D)	(D)	-	-	-	-
33571 65		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
33571 00	Aluminum and aluminum-base alloy wire and cable (including ACSR), n.s.k.....	(X)	(X)	.7	(X)	(NA)	(X)	(NA)	-	-	
33552 --	Rolled Aluminum Rod, Bar (Including Continuous Cast), and Structural Shapes	563.7	510.4	303.0	395.7	231.5	114.7	71.5	67.7	-	
33552 21	Rolled.....	(D)	262.1	175.6	(D)	(D)	(D)	(D)	(D)	-	
33552 25	Continuous cast.....	(D)	248.3	127.4	(D)	(D)	(D)	(D)	(D)	-	
33552 31	Rolled structural shapes.....	{ (X)	(X)	.2	(X)	(NA)	(X)	(NA)	(X)	(X)	
33552 00	Rolled aluminum rod, bar, and shapes, n.s.k....										

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹	Total product shipments including interplant transfers ²		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in manufacture of other products	Shipments of products manufactured from materials owned by others	
			Quantity	Value	Quantity	Value	Quantity	Value			
		(1,000 short tons)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)			
1972											
3355- --	ROLLED AND DRAWN ALUMINUM, N.E.C.--Continued										
33553 11	Aluminum Ingot ^{8 9}	1,739.4	253.1	120.0	(NA)	(NA)	(NA)	(NA)	-	(D)	
33554 11	Aluminum Extrusion Billet ^{8 9}	423.1	101.5	46.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
3356- --	} ROLLED AND DRAWN NONFERROUS METALS, N.E.C.,										
33573 --		TOTAL.....	(NA)	(X)	1,135.1	(X)	(NA)	(X)	(NA)	(NA)	(NA)
33561 --	} Nickel and Nickel-Base Alloy Mill Shapes ⁴	(D)	62.7	270.4	(D)	(D)	(D)	(D)	(D)	-	
33561 61		Plate, sheet, and strip.....	}	(D)	62.7	270.4	(D)	(D)	(D)	(D)	-
33561 63		Pipe and tubing.....									
33561 69		Rod, bar, and other, except wire.....									
33562 --	Titanium Mill Shapes ^{4 10}	30.1	22.5	111.1	(D)	(D)	(D)	(D)	(D)	(D)	
33562 72	Ingot.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	
33562 74	Forging and extrusion billet.....	(D)	5.7	25.0	(D)	(D)	(D)	(D)	-	(D)	
33562 79	Other titanium mill products (sheet, plate, tubing, bar, etc.), except wire.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
33563 --	Precious Metal Mill Shapes, Except Wire (quantity represents 1,000 troy oz.) ⁴	(NA)	(NA)	364.0	(D)	(D)	(D)	(D)	(D)	(D)	
33563 82	Gold (quantity represents 1,000 troy oz.)....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	
33563 84	Silver (quantity represents 1,000 troy oz.)....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	
33563 86	Platinum (quantity represents 1,000 troy oz.)..	(NA)	(NA)	5.9	(D)	(D)	(D)	(D)	-	-	
33563 89	Other (quantity represents 1,000 troy oz.)....	(D)	1,277.2	58.6	(D)	(D)	(D)	(D)	(D)	(D)	
33569 --	} All Other Nonferrous Metal Mill Shapes ⁴	(NA)	(NA)	344.6	(NA)	315.5	(NA)	29.1	(D)	(D)	
33573 --											
33569 43	Magnesium and magnesium-base alloy mill shapes: ¹¹ Extruded shapes, including rod and bar.....	(NA)	(NA)	(D)	(NA)	(D)	(NA)	(D)	(D)	-	
33569 44	Other (sheet, plate, etc.), excluding powder and wire.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	
33569 51	Lead and lead-base alloy mill shapes: Plate, sheet, and strip.....	26.8	26.1	12.7	(D)	(D)	(D)	(D)	-	-	
33569 55	Pipe and tubing, traps, and bends.....	(D)	13.7	12.6	(D)	(D)	(D)	(D)	-	(D)	
33569 59	Other rolled, drawn, or extruded lead products.	18.6	18.6	15.3	(D)	(D)	(D)	(D)	-	-	
33569 71	Zinc and zinc-base alloy mill shapes, including plate, sheet, strip, rods, bars, pipe and tubing (excluding wire).....	(D)	(D)	(D)	(D)	(D)	-	-	-	(D)	
33569 92	} Other nonferrous metal wire.....	(NA)	(NA)	120.9	(NA)	(D)	(NA)	(D)	-	(D)	
33573 11											
33569 92	Made in rolling and drawing, n.e.c. (industry 3356).....	(NA)	(NA)	61.4	(NA)	(D)	(NA)	(D)	-	-	
33573 11	Made in nonferrous wire drawing (industry 3357) and other industries.....	(NA)	(NA)	12 59.5	(NA)	(D)	(NA)	(D)	-	(NA)	
33569 98	Other nonferrous metals.....	(NA)	(NA)	127.9	(NA)	(D)	(NA)	(D)	(NA)	-	
33560 00	Nonferrous rolling and drawing, n.e.c., n.s.k., for establishments with 10 employees or more in 1972. (See note.).....	(NA)	(X)	39.3	(NA)	(NA)	(X)	(NA)	(NA)	(NA)	
33560 02	Nonferrous rolling and drawing, n.e.c., n.s.k., for establishments with less than 10 employees in 1972. (See note.).....	(NA)	(X)	5.7	(NA)	(NA)	(X)	(NA)	(NA)	(NA)	
3357- --	NONFERROUS WIREDRAWING AND INSULATING PRODUCTS, TOTAL.....	(X)	(X)	4,500.1	(NA)	(NA)	(NA)	(NA)	(X)	(X)	
33571 --	} Aluminum and Aluminum-Base Alloy Wire and Cable (Including ACSR) ⁵	455.9	330.6	214.6	(X)	(D)	(X)	(D)	(D)	(D)	
33551 --											
33571 --		Made in Industry 3357 (Nonferrous Wire drawing, Etc.) and Other Industries.....	314.8	243.5	153.6	(X)	(D)	(X)	(D)	(D)	(D)
33551 --	Made in Industry 3355 (Aluminum Rolling and Drawing, N.E.C.).....	141.1	87.1	61.0	(X)	(D)	(X)	(D)	(D)	(D)	

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹	Total product shipments including interplant transfers ²		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in manufacture of other products	Shipments of products manufactured from materials owned by others	
			Quantity	Value	Quantity	Value	Quantity	Value			
		(1,000 short tons)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(1,000 short tons)	
1972											
3357- --	NONFERROUS WIREDRAWING AND INSULATING PRODUCTS--Continued										
33571 --	Aluminum and Aluminum-Base Alloy Wire and Cable (Including ACSR)--Continued										
33551 --											
33571 11	Bare wire for electrical transmission.....	143.8	70.8	66.5	36.5	34.4	40.3	32.1	-	64.8	
33551 11											
33571 11	Made in industry 3357 (nonferrous wire-drawing, etc.) and other industries.....	(D)	35.3	32.2	27.0	26.3	7.4	5.9	-	(D)	
33551 11	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	41.5	34.3	8.6	8.1	32.0	26.2	-	(D)	
33571 51	Bare wire for other than electrical transmission.	66.2	28.7	31.5	24.8	27.2	3.9	4.3	(D)	(D)	
33551 51											
33571 51	Made in industry 3357 (nonferrous wire-drawing, etc.) and other industries.....	(D)	18.1	19.0	(D)	(D)	(D)	(D)	-	(D)	
33551 51	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	10.6	12.5	(D)	(D)	(D)	(D)	(D)	(D)	
33571 61	Aluminum cable, steel reinforced (ACSR) (gross weight).....	170.0	160.7	82.0	152.9	78.7	7.8	3.3	(D)	(D)	
33551 62											
33571 61	Made in industry 3357 (nonferrous wire-drawing, etc.) and other industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	
33551 62	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	
33571 65	Other aluminum cable, bare.....	75.9	64.4	34.6	(D)	(D)	(D)	(D)	-	(D)	
33551 69											
33571 65	Made in industry 3357 (nonferrous wire-drawing, etc.) and other industries.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	
33551 69	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	(D)	(D)	(D)	(D)	(D)	-	-	-	-	
33571 00	Aluminum and aluminum-base alloy wire (including ACSR), n.s.k.....	(X)	(X)	.7	(X)	(NA)	(X)	(NA)	-	-	
1967											
3351- --	ROLLED AND DRAWN COPPER, TOTAL ³	(NA)	(NA)	2,216.8	(NA)	1,832.9	(X)	383.9	(NA)	338.8	
33511 --	Copper and Copper-Base Alloy Wire (Bare and Tinned) for Purposes Other Than Electrical Transmission.....	66.9	63.8	95.6	59.5	89.3	4.3	6.3	(NA)	2.1	
33511 11		Unalloyed.....	11.8	11.4	16.4	11.4	16.4	-	-	(NA)	2.1
33511 31		Alloyed.....	55.1	52.4	79.2	48.1	72.9	4.3	6.3	(NA)	
33513 --	Copper and Copper-Base Alloy Rod, Bar, and Shapes ⁴	1,235.0	833.3	759.7	516.3	477.2	317.0	282.5	(NA)	277.8	
33513 11	Unalloyed copper bars and shapes and nonelectrical rod.....	799.0	444.2	398.4	234.3	216.0	209.9	182.4	(NA)	253.0	
33513 32	Copper-base alloy rod, bar, and shapes.....	436.0	389.1	361.3	282.0	261.2	107.1	100.1	(NA)	24.8	
33514 --	Copper and Copper-Base Alloy Sheet, Strip, and Plate ⁴	841.2	527.5	650.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
33514 13	Unalloyed copper flat products (sheet, strip, plate, foil, etc.).....	128.3	107.6	143.6	(D)	(D)	(D)	(D)	(NA)	15.9	
33514 35	Copper-base alloy flat products (sheet, strip, plate, and foil), including military cups and discs (net weight).....	712.9	419.9	507.2	353.5	448.7	66.4	59.5	(NA)	(13)	

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹	Total product shipments including interplant transfers ²		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in manufacture of other products	Shipments of products manufactured from materials owned by others
			Quantity	Value	Quantity	Value	Quantity	Value		
		(1,000 short tons)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)		
		1967								
3351- --	ROLLED AND DRAWN COPPER--Continued									
33515 --	Copper and Copper-Base Alloy Pipe and Tube ⁴	(NA)	(NA)	694.6	(NA)	(NA)	(NA)	(NA)	(NA)	¹³ 43.4
	Unalloyed:									
33515 16	Pipe and tube, plumbing.....	183.5	191.7	268.7	184.3	258.4	7.4	10.3	(NA)	-
33515 18	Other pipe and tube.....	128.0	124.3	197.5	73.0	185.8	8.3	11.7	(NA)	2.4
	Copper-base alloy:									
33515 36	Pipe and tube, plumbing.....	59.5	60.2	81.7	(D)	(D)	(D)	(D)	(NA)	¹³ 41.0
33515 38	Other pipe and tube.....	86.7	89.7	141.3	(D)	(D)	(D)	(D)	(NA)	
33515 00	Copper and copper-base alloy pipe and tube, n.s.k.....	(X)	(X)	5.4	(X)	(NA)	(X)	(NA)	(X)	(X)
33510 00	Rolled and drawn copper, n.s.k., represents principally establishments with 10 employees or more in 1972. (See note.).....	(X)	(X)	15.2	(X)	(NA)	(X)	(NA)	(X)	(X)
33510 02	Rolled and drawn copper, n.s.k., represents principally establishments with less than 10 employees in 1972. (See note.).....	(X)	(X)	.8	(X)	(NA)	(X)	(NA)	(X)	(X)
3353- --	ALUMINUM SHEET, PLATE, AND FOIL, TOTAL ⁵	(NA)	(NA)	1,454.3	(NA)	(D)	(NA)	(D)	(NA)	(NA)
33531 --	Aluminum Plate (0.25 Inch and Over, Including Continuous Cast) ⁴	179.7	164.3	180.6	126.9	140.8	37.4	39.8	(D)	(D)
33531 13	Plate, heat-treatable.....	101.3	88.0	109.4	66.4	90.9	21.6	18.5	-	-
33531 15	Plate, nonheat-treatable.....	78.4	76.3	71.2	60.5	49.9	15.8	21.3	(D)	(D)
33532 --	Aluminum Sheet (including Continuous Cast) ⁴	(NA)	(NA)	1,068.8	(NA)	(NA)	359.8	(NA)	(D)	(D)
33532 23	Flat, heat-treatable.....	104.2	99.9	96.6	83.8	81.8	16.1	14.8	-	(D)
33532 24	Flat, nonheat-treatable, bare.....	207.3	194.0	150.3	157.9	122.2	36.1	28.1	(D)	(D)
33532 26	Flat, nonheat-treatable, precoated ¹⁴	32.1	30.8	24.4	24.8	15.8	6.0	8.6	-	-
33532 27	Coiled, heat-treatable.....	29.7	33.7	32.7	27.3	28.4	6.4	4.3	-	-
33532 31	Coiled, nonheat-treatable, bare.....	975.9	975.8	690.9	693.5	465.4	282.3	225.5	(D)	(D)
33532 33	Coiled, nonheat-treatable, precoated ¹⁴	84.3	80.8	68.6	67.9	59.2	12.9	9.4	-	(D)
33532 00	Aluminum plate and sheet, n.s.k.....	(X)	(X)	5.3	(X)	(NA)	(X)	(NA)	(X)	(X)
33533 51	Plain aluminum foil (under .006 inch) ⁶	228.1	⁵ 163.8	184.6	128.0	135.2	35.8	49.4	(D)	(D)
33534 55	Welded aluminum tube ⁴	23.5	23.6	20.3	(D)	(D)	(D)	(D)	(D)	(D)
3354- --	ALUMINUM EXTRUDED PRODUCTS, TOTAL ²	(NA)	(NA)	762.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33541 --	Extruded Aluminum Rod, Bar, and Other Extruded Shapes, Except Tube.....	(X)	(X)	565.7	(X)	521.1	(X)	44.6	(X)	(X)
	Extruded rod and bar:									
33541 15	Alloys other than 2,000 and 7,000 series....	26.8	27.2	26.2	36.2	39.4	8.5	7.2	-	(D)
33541 18	Alloys in 2,000 and 7,000 series.....	20.1	17.5	20.4						
	Other extruded shapes, except tube:									
33541 25	Alloys other than 2,000 and 7,000 series....	522.2	519.0	437.1	505.3	466.6	51.6	37.4	7.2	(D)
33541 28	Alloys in 2,000 and 7,000 series.....	38.6	37.9	66.9						
33541 00	Extruded rod, bar, and other extruded shapes, except tube, n.s.k.....	(X)	(X)	15.1	(X)	(NA)	(X)	(NA)	(X)	(X)
33542 --	Aluminum Extruded and Drawn Tube ⁴	(X)	(X)	151.9	(X)	134.2	(X)	17.7	(X)	(X)
33542 51	Extruded.....	77.3	74.5	70.8	111.1	120.9	7.8	17.7	(D)	-
33542 53	Drawn.....	43.6	44.4	67.8						
33542 00	Aluminum tube, n.s.k.....	(X)	(X)	13.3	(X)	(NA)	(X)	(NA)	(NA)	(NA)
33540 00	Aluminum rolling and drawing, n.s.k., for estab- lishments principally with 10 employees or more in 1967. (See note.).....	(X)	(X)	⁷ 42.9	(X)	(NA)	(X)	(NA)	(X)	(X)
33540 02	Aluminum rolling and drawing, n.s.k., for estab- lishments with less than 10 employees in 1967. (See note.).....	(X)	(X)	⁷ 1.9	(X)	(NA)	(X)	(NA)	(X)	(X)

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹	Total product shipments including interplant transfers ²		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in manufacture of other products	Shipments of products manufactured from materials owned by others
			Quantity	Value	Quantity	Value	Quantity	Value		
		(1,000 short tons)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)		
1967										
3355- --	ROLLED AND DRAWN ALUMINUM, N.E.C., TOTAL ⁵ ...	(NA)	(X)	595.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33551 --	Aluminum and Aluminum-Base Alloy Wire and Cable (Including ACSR)..... Made in Industry 3352 (Aluminum Rolling and Drawing)..... Made in Industry 3357 (Nonferrous Wiredrawing, Etc.) and Other Industries.....	426.1	352.6	251.9	333.6	235.2	18.8	16.7	(D)	(D)
33571 --		147.6	90.8	75.0	85.0	69.0	5.8	6.0	(D)	-
33551 --		278.5	261.7	176.9	248.6	166.1	13.1	10.8	(D)	-
33571 --										
33551 11	Bare Wire for Electrical Transmission..... Made in industry 3352 (aluminum rolling and drawing)..... Made in industry 3357 (nonferrous wiredrawing, etc.) and other industries.....	128.7	73.1	57.8	64.5	50.2	8.6	7.6	15.4	-
33571 11		128.7	73.1	57.8	64.5	50.2	8.6	7.6	-	-
33551 11					-	-	-	-	15.4	(D)
33571 11										
33551 51	Bare wire for other than electrical transmission. Made in industry 3352 (aluminum rolling and drawing)..... Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	27.8	26.6	36.6	206.1	145.1	6.7	6.7	(D)	(D)
33571 51		17.3	17.1	26.0					-	-
33551 51		10.5	9.6	10.5					(D)	(D)
33571 51										
33551 62	Aluminum cable steel reinforced (ACSR) (gross weight)..... Made in industry 3352 (aluminum rolling and drawing)..... Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	192.3	186.3	115.2	206.1	145.1	6.7	6.7	(D)	-
33571 61		33.9	32.2	21.3					-	-
33551 62		158.4	154.1	93.9					(D)	-
33571 61										
33551 69	Other aluminum cable, bare..... Made in industry 3352 (aluminum rolling and drawing)..... Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	77.2	66.6	42.3	63.0	39.9	3.6	2.4	13.9	-
33571 65		77.2	66.6	42.3	63.0	39.9	3.6	2.4	13.9	-
33551 69										
33571 65										
33552 --	Rolled Aluminum Rod, Bar (Including Continuous Cast) and Structural Shapes.....	(X)	346.2	257.6	75.5	48.8	270.7	208.8	(X)	(X)
33552 21	Rod and bar:	377.9	346.2	257.6	75.5	48.8	270.7	208.8	(D)	(D)
33552 25	Rolled.....	62.5								
33552 31	Continuous cast.....	5.0								
33552 00	Rolled structural shapes.....	(X)								
33552 00	Rolled aluminum rod, bar, and shapes, n.s.k...	(X)								
33553 11	Aluminum ingot ^{8 9}	979.2	88.2	55.4	(NA)	(NA)	(NA)	(NA)	908.7	(D)
33554 11	Aluminum extrusion billet ^{8 9}	257.1	57.0	30.8	(NA)	(NA)	(NA)	(NA)	178.7	3.7
3356- --	ROLLED AND DRAWN NONFERROUS METALS, N.E.C., TOTAL.....	(NA)	(X)	1,012.1	(X)	(NA)	(X)	(NA)	(NA)	(NA)
33561 --	Nickel and Nickel-Base Alloy Mill Shapes ⁴ Plate, sheet, and strip..... Pipe and tubing..... Rod, bar, and other, except wire.....	(NA)	65.8	208.2	(D)	(D)	(D)	(D)	(NA)	(NA)
33561 61		(NA)	65.8	208.2	(D)	(D)	(D)	(D)	(NA)	(NA)
33561 63										
33561 69										
33562 --	Titanium Mill Shapes ¹⁰	(NA)	(NA)	181.0	(D)	(D)	(D)	(D)	(NA)	(NA)
33562 74	Forging and extrusion billet.....	(NA)	8.4	47.2	(D)	(D)	(D)	(D)	(NA)	(NA)
33562 72	Ingots.....	(NA)								
33562 79	Other titanium mill products (sheet, plate, tubing, bar, etc.).....	(NA)	(NA)	133.8	(D)	(D)	(D)	(D)	(NA)	(NA)
33563 --	Precious Metal Mill Shapes ⁴ Gold..... Silver..... Platinum..... Other.....	(NA)	(NA)	292.7	-	-	-	-	(NA)	(NA)
33563 82		(NA)	(NA)	292.7	-	-	-	-	(NA)	(NA)
33563 84										
33563 86										
33563 89										

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total production ¹	Total product shipments including interplant transfers ²		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in manufacture of other products	Shipments of products manufactured from materials owned by others		
		Quantity	Value	Quantity	Value	Quantity	Value					
		(1,000 short tons)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)	(1,000 short tons)	(million dollars)				
1967												
3356- --	ROLLED AND DRAWN NONFERROUS METALS, N.E.C.--Continued											
33569 --	All Other Nonferrous Metal Mill Shapes ³	(NA)	(NA)	283.5	(D)	(D)	(D)	(D)	(NA)	(NA)		
	Magnesium and magnesium-base alloy mill shapes: ¹¹											
33569 43	Extruded shapes, including rod and bar.....	}	(NA)	26.5	55.1	(D)	(D)	(D)	(D)	(NA)		
33569 44	Other (sheet, plate, etc.), excluding powder and wire.....											
	Lead and lead-base alloy mill shapes:											
33569 51	Plate, sheet, and strip.....	(NA)	49.2	27.8	(D)	(D)	(D)	(D)	(NA)	(NA)		
33569 55	Pipe and tubing, traps, and bends.....	(NA)	19.5	10.0	(D)	(D)	(D)	(D)	(NA)	(NA)		
33569 59	Other rolled, drawn, or extruded lead products.	(NA)	26.7	15.6	(D)	(D)	(D)	(D)	(NA)	(NA)		
33569 71	Zinc and zinc-base alloy mill shapes, including plate, sheet, strip, rods, bars, pipe, and tubing (excluding wire).....	(NA)	17.4	9.1	(D)	(D)	(D)	(D)	(NA)	(NA)		
33569 92	} Other nonferrous metal wire.....	(NA)	(NA)	75.1	(D)	(D)	(D)	(D)	(NA)	(NA)		
33573 11		Made in rolling and drawing, n.e.c. (industry 3356).....	(NA)	(NA)	34.6	(D)	(D)	(D)	(D)	(NA)	(NA)	
33573 11	Made in nonferrous wire-drawing (industry 3357) and other industries.....	(NA)	(NA)	40.5	(D)	(D)	(D)	(D)	(NA)	(NA)		
33569 98	Other nonferrous metals.....	(NA)	(NA)	¹⁵ 90.8	(D)	(D)	(D)	(D)	(NA)	(NA)		
33560 00	Nonferrous rolling and drawing, n.e.c., n.s.k., for establishments with 10 employees or more in 1967. (See note.).....	(NA)	(X)	44.2	(X)	(NA)	(X)	(NA)	(NA)	(NA)		
33560 02	Nonferrous rolling and drawing, n.e.c., n.s.k., for establishments with less than 10 employees in 1967. (See note.).....	(NA)	(X)	2.4	(X)	(NA)	(X)	(NA)	(NA)	(NA)		
3357- --	NONFERROUS WIREDRAWING AND INSULATING PRODUCTS, TOTAL.....	(X)	(X)	3,650.9	(NA)	(NA)	(NA)	(NA)	(X)	(X)		
33571 --	} Aluminum and Aluminum-Base Alloy Wire and Cable (Including ACSR) ⁵	426.1	352.6	251.9	333.6	235.2	18.9	16.7	(D)	(D)		
33551 --		Made in Industry 3357 (Nonferrous Wire- drawing, Etc.) and Other Industries.....	278.5	261.7	176.9	248.6	166.1	13.1	10.8	(D)	-	
33551 --	Made in Industry 3355 (Aluminum Rolling and Drawing, N.E.C.).....	147.6	90.8	75.0	85.0	69.0	5.8	6.0	(D)	-		
33571 11	} Bare wire for electrical transmission.....	128.7	73.1	57.8	64.5	50.2	8.6	7.6	15.4	-		
33551 11		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	}	128.7	73.1	57.8	64.5	50.2	8.6	7.6	15.4	(D)
33551 11	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....											
33571 51	} Bare wire for other than electrical transmission.	28.7	26.6	36.6	}	206.2	145.1	6.7	6.7	}	(D)	(D)
33551 51		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	10.5	9.6									10.5	(D)	(D)
33551 51	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	17.3	17.1	26.0					-	-		
33571 61	} Aluminum cable, steel reinforced (ACSR) (gross weight).....	192.3	186.3	115.2	}						(D)	-
33551 62		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	158.4	154.1									93.9	(D)	(D)
33571 62	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....	33.9	32.2	21.3					-	-		
33571 65	} Other aluminum cable, bare.....	77.2	66.6	42.3	}	62.9	39.9	3.6	2.4	13.9	-	
33551 69		Made in industry 3357 (nonferrous wire- drawing, etc.) and other industries.....	}	77.2								66.6	42.3	62.9	39.9	3.6	2.4	13.9	-
33551 69	Made in industry 3355 (aluminum rolling and drawing, n.e.c.).....											
33572 --	Copper and Copper-Base Alloy Wire (Including Strand and Cable) Bare, and Tinned for Electrical Transmission ³	884.8	335.0	372.8	(D)	(D)	(D)	(D)	519.7	48.4		
33572 11	Wire, unalloyed for electrical transmission...	}	577.5	260.8	262.7	(D)	(D)	(D)	(D)	(D)	(D)	(D)
33572 51	Wire, alloyed for electrical transmission....											
33572 71	Strand and cable.....	267.3	82.6	103.5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
33572 00	Other copper and copper-base alloy wire, n.s.k.	(X)	(X)	6.6	(X)	(NA)	(X)	(NA)	(X)	(X)		

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	NONFERROUS WIREDRAWING AND INSULATING PRODUCTS--Continued					
33573 11	Other bare nonferrous metal wire, except insulated.....		(X)	120.9	(X)	75.1
33569 92						
33573 11			(X)	59.5	(X)	40.5
33569 92	Made in nonferrous wiredrawing (industry 3357) and other industries.....		(X)	61.4	(X)	34.6
33569 92	Made in rolling and drawing, n.e.c. (industry 3356).....		(X)			
33575 --	Nonferrous Wire Cloth and Other Woven Nonferrous Wire Products....		(X)	83.7	(X)	90.1
34965 --						
33575 --			(X)	33.9	(X)	36.2
34965 --	Made in industry 3357 (Nonferrous Wiredrawing, Etc.).....		(X)			
34965 --	Made in Fabricated Wire Products, N.E.C. (industry 3496) and other industries.....		(X)	49.8	(X)	53.9
	Insect wire screening:					
33575 25	Aluminum.....	Million sq.ft.	510.3	26.9	472.1	21.4
34965 15						
33575 25			312.3	14.0	351.1	14.1
34965 15	Made in industry 3496 and other industries.....	do.....	198.0	12.9	121.0	7.3
33575 29	All other nonferrous metal.....	do.....	(NA)	.7	56.1	1.6
34965 19						
	Paper machine wire cloth (Fourdrinier and cylinder):					
33575 53	Copper.....	do.....	17.3	35.4	26.8	43.4
34965 53						
33575 53			7.5	16.3	(NA)	(NA)
34965 53	Made in industry 3496 and other industries.....	do.....	9.8	19.1	(NA)	(NA)
33575 59	All other nonferrous metal.....	do.....	1.9	5.9	5.3	5.9
34965 59						
33575 65						
34965 65	Industrial wire cloth, nonferrous.....	do.....	10.2	11.5	20.0	14.4
33575 00	Nonferrous wire cloth and other woven nonferrous wire products, n.s.k.....		(X)	3.3	(X)	3.5
34965 00						
	Communication wire and cable:					
33574 --	As reported in census of manufactures.....		(X)	1,316.0	(X)	909.1
	As reported on Current Industrial Report series MA-33L ¹⁶		(X)	1,250.6	(X)	862.5
	Appliance wire and cord and flexible cord sets, produced in establishments which insulate wire and cable:					
	As reported on Current Industrial Report series MA-33L ¹⁶		(X)	¹⁷ 341.9	(X)	259.8
33576 --	As Reported in census of manufactures.....		(X)	366.3	(X)	282.0
36996 --						
33576 --			(X)	262.9	(X)	184.2
36996 --	Made in Nonferrous Wiredrawing, Etc. (industry 3357).....		(X)			
	Made in Electrical Products, N.E.C. (industry 3699) and other industries.....		(X)	103.4	(X)	97.8
	Magnet wire:					
33577 --	As reported in census of manufactures.....		(X)	548.8	(X)	449.6
	As reported on Current Industrial Report series MA-33L ¹⁶		(X)	516.3	(X)	420.4
	Power Wire and Cable:					
33578 --	As reported in census of manufactures.....		(X)	499.7	(X)	424.0
	As reported on Current Industrial Report series MA-33L ¹⁶		(X)	478.0	(X)	407.4
	Other Insulated Wire and Cable, N.E.C.:					
33579 --	As reported in census of manufactures.....		(X)	956.5	(X)	745.9
	As reported on Current Industrial Report series MA-33L ¹⁶		(X)	898.3	(X)	736.2
33570 00	Drawn and insulated nonferrous wire, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	35.7	(X)	48.3
33570 02	Drawn and insulated nonferrous wire, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.8	(X)	2.1
	Product		Total product shipments including interplant transfers (million dollars)			
			1972		1967	
3398- --	METAL HEAT TREATING, TOTAL.....		462.9		320.5	
33980 11	Heat treating, pickling, annealing, etc., of metal for the trade.....		¹⁸ 381.1		¹⁸ 274.9	
33980 00	Heat treating of metal for the trade, n.s.k., for companies with 10 employees or more. (See note.).....		¹⁹ 49.3		¹⁹ 35.3	
33980 02	Heat treating of metal for the trade, n.s.k., for companies with less than 10 employees. (See note.).....		¹⁹ 31.8		¹⁹ 10.3	

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3399- --	PRIMARY METAL PRODUCTS, N.E.C., TOTAL.....		(X)	416.5	(X)	270.9
33991 --	Metal Powders and Paste.....		(X)	322.7	(X)	227.8
33991 11	Aluminum and aluminum-base alloy ²⁰	1,000 s. tons.	²¹ 114.6	86.5	²¹ 116.4	84.3
33991 33	Copper and copper-base alloy ²²	do.....	²³ 24.7	36.7	²³ 24.5	31.1
33991 55	Iron and steel.....	do.....	²⁴ 170.7	60.5	²⁴ 130.6	37.4
33991 98	Other nonferrous powders.....		(X)	112.2	(X)	59.4
33991 00	Metal powders and paste, not specified by type.....		(X)	26.8	(X)	15.6
33992 --	Other primary metal products, including nonferrous nails, brads, spikes, and staples.....		(X)	93.8	(X)	43.1
33992 11	Nonferrous nails, brads, tacks, and staples.....	1,000 s. tons.	7.9	9.7	7.8	7.6
33992 98	Other primary metal products, n.e.c.....		(X)	81.3	(X)	35.5
33992 00	Primary metal products, n.s.k.....		(X)	2.8	(X)	

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Includes toll production.

²Includes shipments of these products produced on a toll basis by others.

³Data are also shown in Current Industrial Report series BDSAF-84, Shipments of Copper-Base Mill and Foundry Products.

⁴The product class structure for this industry has been revised from that used in the 1971 Annual Survey of Manufactures and prior years.

⁵Data are also published in Current Industrial Reports series M33-2, Aluminum Ingot and Mill Products.

⁶Differs from quantity data published in Current Industrial Reports series M33-2, Aluminum Ingot and Mill Products, in that no data are included in the plain aluminum foil figures for that quantity of plain foil which is produced and converted in the same establishment. As shown in the Current Industrial Reports, net shipments of aluminum foil totaled 336.6 short tons in 1972 and 224.7 short tons in 1967.

⁷These figures also include values not specified by kind for new industries 3353, Aluminum Sheet, Plate, and Foil, and 3355, Aluminum Rolling and Drawing, N.E.C.

⁸Represents aluminum ingot and extrusion billet made only by establishments classified in industry 3355, Aluminum Rolling and Drawing, N.E.C. Comparable shipments for plants classified in industries 3334, Primary Aluminum, and 3341, Secondary Nonferrous Metals, and other industries are as follows:

Item	Total shipments		Other companies		Interplant transfers	
	Quantity	Value	Quantity	Value	Quantity	Value
	(1,000 s. tons)	(million dollars)	(1,000 s. tons)	(million dollars)	(1,000 s. tons)	(million dollars)
1972						
Aluminum ingot:						
Industry 3334.....	3,241.4	1,509.7	1,362.6	627.5	1,878.8	882.2
Industry 3341 and other industries...	678.5	341.0	(NA)	(NA)	(NA)	(NA)
Aluminum extrusion billet:						
Industry 3334.....	531.8	244.8	333.0	155.7	198.8	89.1
Industry 3341 and other industries...	49.8	28.0	(NA)	(NA)	(NA)	(NA)
1967						
Aluminum ingot:						
Industry 3334.....	2,771.5	1,324.1	1,162.6	579.0	1,598.9	745.1
Industry 3341 and other industries...	663.5	302.8	(NA)	(NA)	(NA)	(NA)
Aluminum extrusion billet:						
Industry 3334.....	464.0	211.4	301.1	106.2	162.9	95.2
Industry 3341 and other industries...	84.9	39.3	(NA)	(NA)	(NA)	(NA)

⁹Most of the aluminum ingot and billet (alloys) produced by aluminum rolling mills represent duplication of tonnages reported by the primary aluminum industry in that metal produced by the rolling mills is made from ingot produced in primary aluminum plants.

¹⁰Data are also published in Current Industrial Reports series, BDSAF-263, Titanium Ingot and Mill Products.

¹¹Data are also published in Current Industrial Reports series M-33G, Magnesium Mill Products.

¹²Includes \$37.4 million produced in industry 3357, Nonferrous Wiredrawing and Insulating.

¹³Data on copper-base alloy flat products are included with copper-base alloy pipe and tubes to avoid disclosing operations of individual companies.

¹⁴See 1972 product codes 33532 26 and 33532 33 for full description of these products.

¹⁵Includes \$32.1 million produced in industry 3357, Nonferrous Wiredrawing and Insulating.

¹⁶See table 6A-2 for detailed product data.

¹⁷In the Current Industrial Report series, coverage includes all known establishments classified in industry 3357, but is limited to the 50 largest companies fabricating appliance wire and cord and flexible cord sets from purchased insulated wire (industry 3699 and other industries).

Footnotes continued on next page.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A-1)--Continued

¹⁶Value consists principally of receipts for work done on materials owned by others. The value represents only work done by establishments classified in industry 3398.

¹⁹These figures for 1972 and 1967 include shipments not specified by kind for both industries 3398 and 3399. Because of a change in the 1972 SIC definitions for these industries, it cannot be determined what portion of these totals should have been allocated to each industry separately.

²⁰Monthly figures are also shown in Current Industrial Reports series M33-2, Aluminum Ingot and Mill Products.

²¹Represents aluminum content.

²²Quarterly figures are also shown in Current Industrial Reports series BDCF-84, Shipments of Copper-Base Mill and Foundry Products.

²³Represents copper content.

²⁴Represents iron content.

TABLE 6A-2. Quantity and Value of Shipments of Insulated Wire and Cable: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers			Shipments to other companies		Transfers to other plants of same company		
		Quantity (1,000 lb.)			Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)
		Gross weight	Copper content	Aluminum content					
1972									
33574 --	Communication Wire and Cable.....	(X)	¹ 765,706	7,618	1,250,555	(X)	1,221,451	(X)	29,104
	Coaxial cable, armored or nonarmored:								
33574 11	Rigid plus semiflexible.....	(X)	^r 6,785		^r 33,236				
	Flexible:								
33574 13	135°C. and over.....	(X)	462		6,286				
33574 14	Under 135°C.....	(X)	15,879		53,568				
33574 22	Lead-in wire, including antenna wire.....	(X)	8,518		^r 16,092				
	Hook-up wire, single and multiconductor:								
33574 23	135°C. and over temperature rating.....	(X)	^r 2,942		39,901				
33574 25	Under 135°C. temperature rating.....	(X)	^r 9,220		^r 29,017				
	Multiconductor electronic wire and cable, shielded and nonshielded:								
33574 18	Flat and ribbon cable.....	(X)	135		693				
33574 19	Other multiconductor electronic wire and cable.....	(X)	7,682		24,897				
33574 41	Jumper and distribution frame wire, including bank, hand-formed, push-back.....	(X)	14,441		22,189				
33574 43	Station wire and cable.....	(X)	23,548		42,610				
33574 72	Switchboard wire and cable, except telephone cord sets and cordage.....	(X)	(²)		(²)				
33574 73	Telephone cord sets and cordage.....	(X)	(²)		(²)				
33574 52	Inside wiring cable.....	(X)	16,709		^r 24,974				
33574 55	Drop and bridle and duct wire and cable.....	(X)	6,527		25,574				
33574 68	Rural and urban distribution wire and cable.....	(X)	^r 16,020		^r 24,134				
	Paper and pulp insulated:								
33574 76	Lead covered telephone and telegraph cable, excluding coaxial.....								
	Polyethylene covered telephone and telegraph cable, excluding coaxial:								
33574 77	Paper insulated.....								
33574 78	Polyethylene insulated.....								
33574 79	Polypropylene insulated.....	(X)	548,567		727,730				
	Thermoplastic insulated:								
33574 81	Lead covered telephone and telegraph cable, excluding coaxial.....								
33574 82	Polyethylene covered telephone and telegraph cable, excluding coaxial.....								
33574 98	All other communication wire and cable.....	(X)	² 88,270		² 179,654				

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Insulated Wire and Cable: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers			Shipments to other companies		Transfers to other plants of same company		
		Quantity (1,000 lb.)			Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)
		Gross weight	Copper content	Aluminum content					
		1972							
33577 --	Magnet Wire.....	554,771	1495,586	45,983	516,335	353,263	315,012	201,508	201,232
	Class A (105°C.):								
	Round:								
33577 12	Plain enameled.....	22,982	19,938	45,983	26,337	7,300	9,014	15,682	17,323
33577 18	Vinyl acetal or vinyl acetal with nylon and acrylic.....	83,659	70,105		69,821	54,628	44,758	29,031	25,063
33577 27	Textile covered.....	6,983	6,711		8,015	(D)	(D)	(D)	(D)
33577 33	Solderable.....	52,046	48,166		55,011	41,771	44,923	24,355	25,037
33577 35	Self-bonding.....	14,080	13,332		14,949				
33577 38	Rectangular and square paper and/or cotton.....	13,293	11,370		10,991	(D)	(D)	(D)	(D)
33577 36	Square and rectangular film.....	18,313	16,922		12,232	(D)	(D)	(D)	(D)
	Class B (130°C.) and class F (155°C.):								
	Round:								
33577 42	Solderable.....	129,974	112,363		45,983	121,749	93,196	74,455	39,725	50,694
33577 44	Epoxy.....								
33577 46	Square and rectangular film.....	2,947	2,843	3,400					
	Class H (180°C.):								
	Round:								
33577 51	Film.....	105,844	98,106	45,983	96,020	53,284	48,100	52,560	47,920
33577 53	Glass covered.....	4,029	3,852		4,015	3,589	3,469	440	546
	Square and rectangular:								
33577 55	Film.....	15,463	13,379		14,155	12,767	11,666	2,696	2,489
33577 57	Glass covered.....	14,085	13,409		14,845	(D)	(D)	(D)	(D)
	Class 220°C. and over:								
33577 62	Round film.....	6,559	6,239	45,983	8,883	8,898	9,475	4,003	5,677
33577 64	Square and rectangular.....	6,342	6,157		6,269				
33577 66	Ceramic and fluorocarbon.....	59	58		167	59	167	-	-
33577 08	Insulated magnet strip conductor.....	49,307	44,643	45,983	39,208	34,362	27,892	14,945	11,316
33577 98	All other types of magnet wire.....								
	Magnet wire not specified by kind.....	r 8,806	r 7,993	(NA)	r 10,268	r 8,806	r 10,268	-	-
33576 --	Appliance Wire and Cord and Flexible Cord Sets ⁴	(X)	169,014	(D)	341,917	(X)	297,699	(X)	44,218
33596 --									
33576 13	Flexible cord sets, including heater cord sets: Thermosetting insulated (including rubber and cross-linked polyethylene).....	13,207	47,445	33,506	(X)	127,869	(X)	19,397	
36996 13									
33576 15	Thermoplastic insulated.....	47,445	113,760	33,506	(X)	127,869	(X)	19,397	
36996 15									
	Appliance wire and cord:								
33576 21	Fixture wire (including heat resistant).....	19,164	30,596	33,506	(X)	53,110	(X)	12,875	
36996 21									
33576 22	Flexible cord (include heater cord): Thermosetting insulated (including rubber and cross-linked polyethylene).....	(X)	19,052	(3)	35,389	53,110	(X)	12,875	
36996 22									
33576 25	Thermoplastic insulated.....	51,440	73,197	35,389	(X)	116,720	(X)	11,946	
36996 25									
33576 26	Motor lead wire and cable.....	6,649	11,302	73,197	(X)	116,720	(X)	11,946	
36996 26									
33576 27	Transformer lead wire.....	1,406	1,847	11,302	(X)	116,720	(X)	11,946	
36996 27									
33576 28	Submersible pump cable.....	1,406	1,847	11,302	(X)	116,720	(X)	11,946	
36996 28									
33576 29	Other apparatus wire and cord (including cotton braid sets).....	r 10,651	r 42,320						

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Insulated Wire and Cable: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers			Shipments to other companies		Transfers to other plants of same company		
		Quantity (1,000 lb.)			Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)
		Gross weight	Copper content	Aluminum content					
1972									
33578 --	Power Wire and Cable.....	(X)	1262,236	142,096	477,954	(X)	446,607	(X)	31,347
	Under 601 volts:								
	Portable power cable:								
33578 05	Welding cable.....		r 10,859	r 819	r 11,977	(X)	r 11,246	(X)	731
33578 07	All other.....		r 24,918	(D)	r 40,543	(X)	r 34,677	(X)	5,866
	Underground distribution cable (URD):								
33578 12	Preassembled in duct.....		r 2,172	(D)	r 3,195				
33578 17	Not preassembled in duct.....		r 2,620	r 39,959	r 28,734				
33578 13	Varnished cloth insulated, including glass.....		554	(D)	808	(X)	58,031	(X)	669
	Thermosetting insulated (excluding USE types):								
33578 21	Armored, rubber type.....		12,609	3,079	25,963				
33578 22	Armored, cross-linked polyethylene.....			(D)	18,038	(X)	15,481	(X)	2,557
33578 23	Unarmored, rubber type.....		13,307	(D)	49,908	(X)	49,005	(X)	903
33578 24	Unarmored, cross-linked polyethylene.....		32,168	23,231	29,652	(X)	28,667	(X)	985
33578 15	Thermoplastic insulated.....		24,507	(D)	5,385				
33578 18	Asbestos and asbestos-varnished cloth.....		2,356	(D)					
	601 volts and higher:								
33578 31	Portable power cable.....	(X)	r 5,003	(D)	17,240	(X)	(⁴)	(X)	(⁴)
	Underground distribution cable (URD):								
33578 32	Preassembled in duct.....		r 3,472	(D)	5,907				
33578 37	Not preassembled in duct.....		r 18,593	11,271	r 35,697	(X)	r 35,602	(X)	95
33578 33	Varnished cloth insulated, including glass.....		r 1,038	-	1,069				
	Paper insulated.....								
33578 51	601 volts to 15 kv.....		19,006	(D)	26,834				
33578 53	15.1 kv. to 50 kv.....		9,669	(D)	15,183				
33578 58	Over 50 kv.....		10,760	(D)	18,587	(X)	⁴ 213,898	(X)	⁴ 19,541
	Thermosetting insulated (including rubber and cross-linked polyethylene):								
33578 61	601 volts to 15 kv.....		41,995	13,197	73,020				
33578 63	15.1 kv. to 50 kv.....		5,386	4,825	13,887				
33578 65	Over 50 kv.....		r 7,400	(D)	12,820				
33578 38	Thermoplastic insulated.....		r 13,934	(D)	43,507				
33578 00	Power wire and cable (not specified by kind).....								
33579 --	Other Insulated or Covered Wire and Cable.....	(X)	737,252	193,555	898,317	(X)	784,752	(X)	113,565
33579 11	Signal wire and cable.....		4,139	(D)	r 11,454				
	Control wire and cable:								
33579 13	Thermosetting insulated (including rubber and cross-linked polyethylene).....		9,685	-	25,807	(X)	r 57,171	(X)	2,605
33579 14	Thermoplastic insulated.....		13,994	(D)	r 22,515				
33579 15	Elevator cable.....		1,058	-	4,962	(X)	4,962	(X)	-
	Weatherproof and service drop cable:								
33579 31	Braided.....		3,178	50,382	32,700	(X)	32,583	(X)	117
33579 34	Thermosetting insulated (including neoprene and cross-linked polyethylene).....		7,891	56,402	39,400	(X)	38,944	(X)	456
33579 35	Thermoplastic insulated.....								
	Building wire and cable having underwriters' labels:								
33579 39	Thermosetting insulated (including rubber and cross-linked polyethylene).....	(X)	r 47,387	20,325	r 49,925				
33579 42	Metallic armored cable (all a.c. types).....		10,368	174	15,160				
33579 43	Nonmetallic sheathed cable, type NM.....		223,840	10,243	201,220	(X)	(⁶)	(X)	(⁶)
33579 44	Underground feeder cable (type NMC and UF).....		21,991	(D)	25,335				
33579 46	Service entrance cable.....		7,807	24,549	33,756				
33579 48	Thermosetting insulated.....		258,991	28,138	238,654	(X)	219,557	(X)	19,097
33579 49	Other building wire and cable (except varnished cambric insulated).....		(D)	(D)	(D)				
	Automotive, airframe, shipboard, and ground support cable (excluding coaxial cable and ignition cable):								
33579 71	Automotive.....		r 66,671	(D)	r 89,044	(X)	⁶ 386,882	(X)	⁶ 78,306
33579 79	Airframe and missile.....		3,153	(D)	9,701				
33579 89	Shipboard cable (Navy and Merchant Marine).....		8,962	(D)	16,995				
33579 91	Missile ground support cable.....		(D)	-	(D)				
33579 98	Other insulated wire and cable.....		r 21,162	(D)	r 57,637	(X)	r 44,653	(X)	12,984

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Insulated Wire and Cable: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers			Shipments to other companies		Transfers to other plants of same company		
		Quantity (1,000 lb.)			Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000) *
		Gross weight	Copper content	Aluminum content					
		1967							
33574 --	Communication Wire and Cable.....	(X)	1575,961	5,104	862,476	(X)	841,757	(X)	20,719
	Coaxial cable (armored or nonarmored):								
33574 11	Rigid plus semiflexible.....	(X)	5,805	5,104	20,993	(X)	90,071	(X)	3,094
33574 12	Flexible.....	(X)	23,848		72,172				
33574 21	Electronic wire.....	(X)	13,528		33,600				
33574 22	Lead-in wire, including antenna wire:								
	Quantity reported.....	(X)	3,774		7,628	(X)	(7)	(X)	(7)
	Quantity not reported.....	(X)	(X)		1,990				
	Hook-up wire (single and multiconductor):								
33574 24	200°C. and over temperature rating.....	(X)	4,626		49,901				
33574 26	Under 200°C. temperature rating.....	(X)	20,692		59,889				
33574 27	Instrumentation wire and cable.....	(X)	5,088		12,297	(X)	99,125	(X)	5,328
33574 41	Jumper and distributing frame wire, including bank, handformed, push-back.....	(X)	11,425	5,104	16,804				
33574 43	Station wire and cable.....	(X)	32,065		43,154				
33574 52	Inside wiring cable.....	(X)	4,546		19,880				
33574 55	Drop and bridle and duct wire and cable.....								
33574 68	Rural and urban distribution wire and cable.....	(X)	6,033		12,313				
	Paper and pulp insulated and polyethylene insulated telephone cable and telegraph cable (excluding coaxial):								
33574 73	} Lead-covered.....	(X)	7,243		13,464	(X)	7652,561	(X)	712,297
33574 75									
33574 81	} Polyethylene covered.....	(X)	380,269		401,909				
33574 85									
33574 71	Switchboard wire and cable.....	(X)	56,034		96,477				
33574 98	Other communication wire and cable.....								
33577 --	Magnet Wire.....	507,799	486,759	8,943	420,400	328,338	271,718	179,461	148,682
	Class A (105°C.):								
	Round:								
33577 12	Plain enameled.....	24,643	23,238		28,224	13,741	17,337	10,902	10,887
33577 18	Vinyl acetal or vinyl acetal with nylon and acrylic.....	112,267	107,533		84,853	71,521	53,404	40,746	31,449
33577 27	Textile covered.....	6,486	6,190		7,819				
33577 33	Solderable.....	37,743	36,544		38,375	30,992	32,773	13,237	13,421
33577 35	Self-bonding.....	12,084	11,798		11,455	9,430	9,464	2,654	1,991
33577 38	Rectangular and square paper and/or cotton.....	18,301	17,184		12,900	(D)	(D)	(D)	(D)
33577 36	Square and rectangular film.....	23,240	21,567		15,800	(D)	(D)	(D)	(D)
	Class B (130°C.) and class F (155°C.):								
	Round:								
33577 42	Solderable.....	75,335	72,783	8,943	59,494	65,633	49,184	35,765	29,962
33577 44	Epoxy.....	14,904	14,636		10,813				
33577 46	Square and rectangular film.....	11,159	10,190		8,839				
	Class H (180°C.):								
	Round:								
33577 51	Film.....	81,657	79,295		61,830	59,318	45,370	22,339	16,460
33577 53	Glass covered.....	6,007	5,735		5,816				
	Square and rectangular:								
33577 55	Film.....	13,354	12,946		10,038	15,276	12,391	4,085	3,463
33577 57	Glass covered.....	21,365	20,145		19,399				
	Class 220°C. and over:								
33577 62	Round film.....	9,394	9,054		10,922	(D)	(D)	(D)	(D)
33577 64	Square and rectangular.....	10,697	9,802		8,992	(D)	(D)	(D)	(D)
33577 66	Ceramic and fluorocarbon.....	89	82		497	89	497	-	-
33577 08	Insulated magnet strip conductor.....	29,074	28,037		24,334	(D)	(D)	-	-
33577 98	All other types of magnet wire.....				(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Insulated Wire and Cable: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers			Shipments to other companies		Transfers to other plants of same company		
		Quantity (1,000 lb.)			Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)
		Gross weight	Copper content	Aluminum content					
1967									
33578 --	Power Wire and Cable.....	(X)	268,265	47,857	407,390	(X)	396,412	(X)	10,978
33578 11	Under 601 volts: Portable power cable.....		28,664		42,363				
33578 12	Underground distribution cable (URD): Preamsembled in duct: Quantity reported..... Quantity not reported.....		362 (X)		1,063 380				
33578 17	Not preassembled in duct: Quantity reported..... Quantity not reported.....		1,882 (X)		5,195 1,456				
33578 13	Varnished cloth insulated, including glass.....		924		2,278				
33578 16	Thermosetting insulated (including rubber and cross-linked polyethylene).....		77,719		114,322				
33578 15	Thermoplastic insulated.....		30,556		39,218				
33578 18	Asbestos and asbestos-varnished cloth.....		2,927		6,063				
33578 31	601 volts and higher: Portable power cable.....	(X)	4,039	47,857	9,615	(X)	396,412	(X)	10,978
33578 32	Underground distribution cable (URD): Preamsembled in duct.....		10,983		17,818				
33578 37	Not preassembled in duct.....		2,256		3,182				
33578 33	Varnished cloth insulated, including glass.....		29,564		39,048				
33578 51	Paper insulated: 601 volts to 15 kv.....		10,548		15,396				
33578 53	15.1 kv. to 50 kv.....		13,110		19,042				
33578 55	Over 50 kv.....								
33578 61	Thermosetting insulated (including rubber and cross- linked polyethylene): 601 volts to 15 kv.....		35,765		59,968				
33578 63	15.1 kv. to 50 kv.....		4,651		7,915				
33578 65	Over 50 kv.....		12,829		23,068				
33578 38	Thermoplastic insulated.....								
33579 --	Other Insulated or Covered Wire and Cable.....	(X)	585,608	110,337	736,169	(X)	675,163	(X)	61,006
33579 11	Signal wire and cable.....		5,146		13,162				
33579 13	Control wire and cable: Thermosetting insulated (including rubber and cross-linked polyethylene).....		10,110 (S)		18,215 43,225				
33579 14	Thermoplastic insulated.....		4,996		4,612				
33579 31	Weatherproof and service drop cable: Braided.....		5,900		31,234				
33579 34	Thermosetting covered (including neoprene and cross-linked polyethylene).....		11,627		34,367				
33579 35	Thermoplastic insulated.....								
33579 39	Building wire and cable having underwriters' labels: Thermosetting insulated (including rubber and cross- linked polyethylene).....		79,156		58,898				
33579 42	Metallic armored cable (all a.c. types).....		10,573		13,988				
33579 43	Nonmetallic sheathed cable, type NM.....		94,062		99,824				
33579 44	Underground feeder cable (type NMC and UF).....		16,101		20,966				
33579 46	Service entrance cable.....		10,266		23,941				
33579 48	Thermoplastic insulated.....		241,312		227,381				
33579 49	Other building wire and cable (except varnished cambric insulated): Quantity reported..... Quantity not reported.....		4,993 (X)		4,314 954	(X)	532,771	(X)	58,583
33579 71	Automotive, airframe, shipboard, and ground support cable (excluding coaxial cable and ignition cable): Automotive.....		22,509		25,857				
33579 79	Airframe and missile.....		5,774		18,072				
33579 89	Shipboard cable (Navy and Merchant Marine): Quantity reported..... Quantity not reported.....		12,032 (X)		33,775 13,362				
33579 91	Missile ground support cable.....		1,980		7,138				
33579 98	Other insulated wire and cable.....		17,671		42,884				

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Insulated Wire and Cable: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers			Shipments to other companies		Transfers to other plants of same company		
		Quantity (1,000 lb.)			Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)	Quantity (1,000 lb. gross weight)	Value (\$1,000)
		Gross weight	Copper content	Aluminum content					
		1967							
33576 -- 36996 --	Appliance Wire and Cord and Flexible Cord Sets ⁶	(X)	140,716	(D)	259,835	(X)	233,595	(X)	26,240
	Flexible cord sets, including heater cord sets:								
33576 11 36996 11	Cotton braid sets.....		(⁸)		(⁸)	(X)	(⁸)	(X)	(⁸)
33576 13 36996 13	Thermosetting insulated (including rubber and cross- linked polyethylene).....		13,456		40,470	(X)	113,338	(X)	12,605
33576 15 36996 15	Thermoplastic insulated.....		43,430		85,473				
	Appliance wire and cord:								
33576 21 36996 21	Fixture wire (include heat hesistant).....	(X)	16,898	(D)	25,662	(X)	120,257	(X)	⁸ 13,635
	Flexible cord (include heater cord):								
33576 22 36996 22	Thermosetting insulated (including rubber and cross- linked polyethylene).....		14,988		30,115				
33576 25 36996 25	Thermoplastic insulated.....		34,957		50,176				
33576 29 36996 29	Other appliance wire and cord.....		⁸ 16,987		⁸ 27,939				

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the data did not meet publication standards. Revised by 5 percent or more from previously published figure.

¹Includes estimates for quantities not reported. The estimates amounted to less than 2 percent of these totals.

²Switchboard wire and cable and telephone cord sets and cordage are included with product code 33574 98 to avoid disclosing operations of individual companies.

³Aluminum content data are available for individual products (7-digit) only for those products in product classes 33578, power wire and cable, and 33579, other insulated or covered wire and cable. For other product classes, aluminum content figures were collected only at product class (5-digit) level.

⁴Data for product codes 33578 18, 33578 31, and 33578 32 are included with product codes 33578 33, 33578 51, 33578 53, 33578 61, 33578 63, 33578 65, and 33578 38.

⁵Data are limited to shipments by all known establishments which insulate wire or cable and establishments operated by the 50 largest producers of appliance wire and cord and flexible cord sets from purchased insulated wire (as measured by dollar value of shipments in 1963). However, the under-coverage of such wire and cord sets is probably less than 3 percent at the product class level.

⁶Data for product codes 33579 39 to 33579 46 are included with codes 33579 49 to 33579 91.

⁷Electronic lead-in and hook-up wire are included with paper and pulp, polyethylene insulated, switchboard and other communications wire and cable, to avoid disclosing operations of individual companies.

⁸Cotton braided flexible cord sets, including heater cord sets, are included with "other appliance wire and cord" to avoid disclosing operations of individual companies.

Source: Current Industrial Reports series MA-33L, Insulated Wire and Cable.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COPPER, COPPER-BASE ALLOY WIRE, NOT ELECTRICAL (33511)			COPPER, COPPER-BASE ALLOY SHEET, STRIP, AND PLATE (33514)--Continued		
United States.....	157.9	95.6	Northeast Region--Continued		
Northeast Region.....	115.5	73.6	Middle Atlantic Division.....	169.3	(NA)
New England Division.....	64.6	37.9	New York.....	GG	(NA)
Massachusetts.....	EE	BB	New Jersey.....	FF	(NA)
Connecticut.....	GG	32.6	Pennsylvania.....	37.5	(NA)
Middle Atlantic Division.....	50.9	35.7	North Central Region.....	GG	(NA)
New York.....	CC	(¹)	East North Central Division.....	GG	(NA)
New Jersey.....	35.9	30.8	Ohio.....	66.7	(NA)
Pennsylvania.....	CC	BB	Indiana.....	FF	(NA)
North Central Region.....	FF	EE	Illinois.....	GG	(NA)
East North Central Division.....	EE	EE	Michigan.....	FF	(NA)
Ohio.....	BB	CC	Wisconsin.....	FF	(NA)
Illinois.....	BB	AA	West Region.....	CC	(NA)
Michigan.....	AA	AA	Pacific Division.....	CC	(NA)
Wisconsin.....	CC	AA	California.....	CC	(NA)
West North Central Division.....	EE	GG			
Missouri.....	EE	(NA)	COPPER, COPPER-BASE ALLOY PIPE AND TUBE (33515)		
South Region.....	CC	473.1	United States.....	761.8	(NA)
East South Central Division.....	BB	347.8	Northeast Region.....	322.5	(NA)
Mississippi.....	BB	(NA)	New England Division.....	113.5	(NA)
West Region.....	AA	128.7	Rhode Island.....	EE	(NA)
Pacific Division.....	AA	128.7	Connecticut.....	GG	(NA)
California.....	AA	FF	Middle Atlantic Division.....	208.9	(NA)
			New York.....	FF	(NA)
COPPER, COPPER-BASE ALLOY ROD, BAR, AND SHAPES (33513)			New Jersey.....	GG	(NA)
United States.....	1,170.9	(NA)	Pennsylvania.....	101.9	(NA)
Northeast Region.....	470.3	(NA)	North Central Region.....	202.1	(NA)
New England Division.....	124.9	(NA)	East North Central Division.....	202.1	(NA)
Massachusetts.....	AA	(NA)	Ohio.....	31.6	(NA)
Rhode Island.....	BB	(NA)	Indiana.....	FF	(NA)
Connecticut.....	120.2	(NA)	Illinois.....	87.7	(NA)
Middle Atlantic Division.....	345.3	(NA)	Michigan.....	FF	(NA)
New York.....	108.1	(NA)	Wisconsin.....	FF	(NA)
New Jersey.....	187.2	(NA)	South Region.....	187.5	(NA)
Pennsylvania.....	50.1	(NA)	South Atlantic Division.....	EE	(NA)
North Central Region.....	412.7	(NA)	Virginia.....	CC	(NA)
East North Central Division.....	GG	(NA)	West Virginia.....	BB	(NA)
Ohio.....	FF	(NA)	East South Central Division.....	121.1	(NA)
Indiana.....	85.7	(NA)	Kentucky.....	BB	(NA)
Illinois.....	GG	(NA)	Tennessee.....	EE	(NA)
Michigan.....	172.2	(NA)	Alabama.....	GG	(NA)
Wisconsin.....	FF	(NA)	Mississippi.....	FF	(NA)
West North Central Division.....	FF	(NA)	West South Central Division.....	GG	(NA)
Missouri.....	FF	(NA)	Arkansas.....	FF	(NA)
South Region.....	GG	(NA)	Texas.....	CC	(NA)
South Atlantic Division.....	FF	(NA)	West Region.....	49.7	(NA)
Georgia.....	FF	(NA)	Pacific Division.....	49.7	(NA)
East South Central Division.....	EE	(NA)	Washington.....	CC	(NA)
Kentucky.....	EE	(NA)	California.....	FF	(NA)
West South Central Division.....	GG	(NA)			
Texas.....	GG	(NA)	ALUMINUM PLATE (33531)		
West Region.....	GG	(NA)	United States.....	89.5	(NA)
Mountain Division.....	GG	(NA)	Northeast Region.....	BB	(NA)
Montana.....	GG	(NA)	Middle Atlantic Division.....	BB	(NA)
Arizona.....	GG	(NA)	New York.....	BB	(NA)
Pacific Division.....	22.6	(NA)	North Central Region.....	GG	(NA)
California.....	22.6	(NA)	East North Central Division.....	FF	(NA)
			Ohio.....	BB	(NA)
COPPER, COPPER-BASE ALLOY SHEET, STRIP, AND PLATE (33514)			Illinois.....	EE	(NA)
United States.....	705.9	(NA)	West North Central Division.....	FF	(NA)
Northeast Region.....	364.6	(NA)	Iowa.....	FF	(NA)
New England Division.....	195.3	(NA)	South Region.....	EE	(NA)
Massachusetts.....	FF	(NA)	South Atlantic Division.....	CC	(NA)
Connecticut.....	GG	(NA)	West Virginia.....	CC	(NA)
			East South Central Division.....	EE	(NA)
			Alabama.....	EE	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ALUMINUM PLATE (33531)—Continued			ALUMINUM WELDED TUBE (33534)		
West Region.....	9.1	(NA)	United States.....	34.3	(NA)
Pacific Division.....	9.1	(NA)	North Central Region.....	CC	(NA)
Washington.....	CC	(NA)	East North Central Division.....	BB	(NA)
California.....	BB	(NA)	Illinois.....	BB	(NA)
			West North Central Division.....	BB	(NA)
ALUMINUM SHEET (33532)			Nebraska.....	BB	(NA)
United States.....	1,897.4	(NA)	South Region.....	22.8	(NA)
Northeast Region.....	GG	(NA)	South Atlantic Division.....	CC	(NA)
New England Division.....	EE	(NA)	Georgia.....	CC	(NA)
Connecticut.....	EE	(NA)	East South Central Division.....	EE	(NA)
Middle Atlantic Division.....	GG	(NA)	Alabama.....	EE	(NA)
New York.....	GG	(NA)	West Region.....	CC	(NA)
Pennsylvania.....	GG	(NA)	Pacific Division.....	CC	(NA)
North Central Region.....	802.3	(NA)	Washington.....	BB	(NA)
East North Central Division.....	GG	(NA)	California.....	BB	(NA)
Ohio.....	GG	(NA)			
Indiana.....	GG	(NA)	EXTRUDED ALUMINUM ROD, BAR, AND OTHER EXTRUDED SHAPES (33541)		
Illinois.....	204.2	(NA)	United States.....	781.5	(NA)
Michigan.....	CC	(NA)	Northeast Region.....	113.9	(NA)
West North Central Division.....	GG	(NA)	New England Division.....	8.6	(NA)
Iowa.....	GG	(NA)	Massachusetts.....	CC	(NA)
Kansas.....	AA	(NA)	Middle Atlantic Division.....	105.2	(NA)
South Region.....	708.9	(NA)	New York.....	13.4	(NA)
South Atlantic Division.....	GG	(NA)	New Jersey.....	25.2	(NA)
West Virginia.....	GG	(NA)	Pennsylvania.....	66.6	(NA)
North Carolina.....	CC	(NA)	North Central Region.....	241.6	(NA)
Georgia.....	AA	(NA)	East North Central Division.....	219.0	(NA)
East South Central Division.....	GG	(NA)	Ohio.....	69.3	(NA)
Kentucky.....	140.1	(NA)	Indiana.....	49.3	(NA)
Tennessee.....	GG	(NA)	Illinois.....	37.0	(NA)
Alabama.....	GG	(NA)	Michigan.....	63.5	(NA)
West South Central Division.....	AA	(NA)	West North Central Division.....	22.6	(NA)
Arkansas.....	AA	(NA)	Minnesota.....	4.9	(NA)
West Region.....	GG	(NA)	Iowa.....	BB	(NA)
Pacific Division.....	GG	(NA)	Missouri.....	EE	(NA)
Washington.....	GG	(NA)	Kansas.....	CC	(NA)
California.....	50.8	(NA)	South Region.....	263.5	(NA)
PLAIN ALUMINUM FOIL (33533)			South Atlantic Division.....	151.4	(NA)
United States.....	216.8	(NA)	Maryland.....	CC	(NA)
Northeast Region.....	33.2	(NA)	Virginia.....	EE	(NA)
New England Division.....	CC	(NA)	North Carolina.....	14.6	(NA)
Connecticut.....	CC	(NA)	South Carolina.....	CC	(NA)
Middle Atlantic Division.....	FF	(NA)	Georgia.....	GG	(NA)
New York.....	AA	(NA)	Florida.....	FF	(NA)
Pennsylvania.....	FF	(NA)	East South Central Division.....	60.0	(NA)
North Central Region.....	51.3	(NA)	Kentucky.....	CC	(NA)
East North Central Division.....	FF	(NA)	Tennessee.....	EE	(NA)
Indiana.....	FF	(NA)	Alabama.....	EE	(NA)
West North Central Division.....	FF	(NA)	Mississippi.....	23.4	(NA)
Iowa.....	FF	(NA)	West South Central Division.....	52.1	(NA)
Missouri.....	BB	(NA)	Arkansas.....	BB	(NA)
South Region.....	120.5	(NA)	Louisiana.....	AA	(NA)
South Atlantic Division.....	57.9	(NA)	Texas.....	FF	(NA)
Virginia.....	FF	(NA)	West Region.....	162.5	(NA)
West Virginia.....	EE	(NA)	Mountain Division.....	EE	(NA)
North Carolina.....	EE	(NA)	Arizona.....	EE	(NA)
East South Central Division.....	GG	(NA)	Pacific Division.....	148.8	(NA)
Kentucky.....	FF	(NA)	Washington.....	36.4	(NA)
Tennessee.....	26.7	(NA)	California.....	112.3	(NA)
Alabama.....	AA	(NA)			
West South Central Division.....	CC	(NA)	ALUMINUM EXTRUDED AND DRAWN TUBE (33542)		
Arkansas.....	CC	(NA)	United States.....	212.4	(NA)
West Region.....	11.8	(NA)	Northeast Region.....	75.2	(NA)
Pacific Division.....	11.8	(NA)	New England Division.....	10.5	(NA)
California.....	11.8	(NA)	New Hampshire.....	AA	(NA)
			Massachusetts.....	CC	(NA)
			Rhode Island.....	BB	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ALUMINUM EXTRUDED AND DRAWN TUBE (33542)--Con.			ROLLED ALUMINUM ROD, BAR, AND STRUCTURAL SHAPES (33552)--Continued		
Northeast Region--Continued			West Region.....	FF	(NA)
Middle Atlantic Division.....	64.6	(NA)	Mountain Division.....	CC	(NA)
New York.....	EE	(NA)	Montana.....	CC	(NA)
New Jersey.....	EE	(NA)	Pacific Division.....	EE	(NA)
Pennsylvania.....	30.3	(NA)	Washington.....	EE	(NA)
North Central Region.....	65.0	(NA)			
East North Central Division.....	GG	(NA)	ALUMINUM INGOT (33553, 33347, AND 33417)		
Ohio.....	AA	(NA)	United States.....	1,971.2	1,675.4
Indiana.....	FF	(NA)	Northeast Region.....	161.4	149.8
Illinois.....	7.4	(NA)	Middle Atlantic Division.....	GG	GG
Michigan.....	18.7	(NA)	New York.....	GG	118.2
West North Central Division.....	CC	(NA)	Pennsylvania.....	FF	FF
Missouri.....	BB	(NA)	North Central Region.....	365.5	384.1
Kansas.....	AA	(NA)	East North Central Division.....	GG	367.5
South Region.....	39.9	(NA)	Indiana.....	GG	127.0
South Atlantic Division.....	EE	(NA)	West North Central Division.....	FF	16.7
Virginia.....	EE	(NA)	Missouri.....	EE	BB
North Carolina.....	AA	(NA)	South Region.....	932.5	727.8
East South Central Division.....	FF	(NA)	South Atlantic Division.....	167.9	GG
Kentucky.....	EE	(NA)	Maryland.....	FF	AA
Alabama.....	CC	(NA)	West Virginia.....	GG	GG
Mississippi.....	BB	(NA)	North Carolina.....	FF	FF
West Region.....	32.3	(NA)	East South Central Division.....	333.6	GG
Mountain Division.....	EE	(NA)	Tennessee.....	GG	BB
Arizona.....	EE	(NA)	Alabama.....	GG	GG
Pacific Division.....	EE	(NA)	West South Central Division.....	431.0	316.4
California.....	EE	(NA)	Arkansas.....	GG	GG
ALUMINUM, ALUMINUM-BASE ALLOY WIRE, ROLLING MILLS (33551)			Louisiana.....	GG	GG
United States.....	61.0	(NA)	Texas.....	GG	GG
Northeast Region.....	EE	(NA)	West Region.....	511.9	413.3
New England Division.....	AA	(NA)	Mountain Division.....	GG	FF
Rhode Island.....	AA	(NA)	Montana.....	GG	FF
Middle Atlantic Division.....	EE	(NA)	Pacific Division.....	GG	GG
New York.....	EE	(NA)	Washington.....	384.4	271.0
South Region.....	46.3	(NA)	Oregon.....	FF	GG
South Atlantic Division.....	CC	(NA)			
Georgia.....	CC	(NA)	ALUMINUM EXTRUSION BILLET (33554, 33348 AND 33418)		
East South Central Division.....	FF	(NA)	United States.....	319.4	185.5
Kentucky.....	EE	(NA)	Northeast Region.....	FF	FF
Tennessee.....	CC	(NA)	Middle Atlantic Division.....	FF	EE
Alabama.....	BB	(NA)	New York.....	EE	EE
West South Central Division.....	EE	(NA)	North Central Region.....	FF	FF
Arkansas.....	EE	(NA)	West North Central Division.....	EE	(NA)
West Region.....	AA	(NA)	Missouri.....	EE	(NA)
Mountain Division.....	AA	(NA)	South Region.....	160.6	GG
Montana.....	AA	(NA)	South Atlantic Division.....	FF	EE
ROLLED ALUMINUM ROD, BAR, AND STRUCTURAL SHAPES (33552)			Maryland.....	EE	(NA)
United States.....	303.0	(NA)	North Carolina.....	EE	AA
Northeast Region.....	GG	(NA)	East South Central Division.....	EE	FF
Middle Atlantic Division.....	GG	(NA)	Tennessee.....	CC	FF
New York.....	GG	(NA)	West South Central Division.....	107.7	GG
North Central Region.....	GG	(NA)	Arkansas.....	FF	FF
East North Central Division.....	GG	(NA)	Louisiana.....	GG	GG
Ohio.....	FF	(NA)	Texas.....	EE	FF
Indiana.....	CC	(NA)	West Region.....	98.7	GG
South Region.....	159.2	(NA)	Pacific Division.....	98.6	FF
South Atlantic Division.....	GG	(NA)	Washington.....	GG	FF
Georgia.....	GG	(NA)	Oregon.....	EE	EE
East South Central Division.....	49.6	(NA)			
Kentucky.....	EE	(NA)	NICKEL AND NICKEL-BASE ALLOY MILL SHAPES (33561)		
Tennessee.....	EE	(NA)	United States.....	270.4	(NA)
Alabama.....	EE	(NA)	Northeast Region.....	FF	(NA)
West South Central Division.....	GG	(NA)	New England Division.....	EE	(NA)
Louisiana.....	FF	(NA)	Connecticut.....	EE	(NA)
Texas.....	FF	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
NICKEL AND NICKEL-BASE ALLOY MILL SHAPES (33561)--Continued			ALL OTHER NONFERROUS METAL MILL SHAPES (33569)--Continued		
Northeast Region--Continued			Northeast Region--Continued		
Middle Atlantic Division.....	FF	(NA)	New England Division--Continued		
New Jersey.....	EE	(NA)	Rhode Island.....	BB	(NA)
Pennsylvania.....	EE	(NA)	Connecticut.....	AA	(NA)
North Central Region.....	61.6	(NA)	Middle Atlantic Division.....	104.2	(NA)
East North Central Division.....	61.6	(NA)	New York.....	23.0	(NA)
Ohio.....	BB	(NA)	New Jersey.....	46.2	(NA)
Indiana.....	FF	(NA)	Pennsylvania.....	35.0	(NA)
Illinois.....	BB	(NA)	North Central Region.....	99.7	(NA)
Michigan.....	32.3	(NA)	East North Central Division.....	GG	(NA)
South Region.....	GG	(NA)	Ohio.....	34.6	(NA)
South Atlantic Division.....	GG	(NA)	Indiana.....	CC	(NA)
Maryland.....	AA	(NA)	Illinois.....	20.2	(NA)
West Virginia.....	GG	(NA)	Michigan.....	EE	(NA)
North Carolina.....	EE	(NA)	West North Central Division.....	AA	(NA)
East South Central Division.....	AA	(NA)	Missouri.....	AA	(NA)
Alabama.....	AA	(NA)	South Region.....	GG	(NA)
West Region.....	BB	(NA)	South Atlantic Division.....	EE	(NA)
Pacific Division.....	BB	(NA)	Maryland.....	BB	(NA)
California.....	BB	(NA)	North Carolina.....	BB	(NA)
TITANIUM MILL SHAPES (33562)			East South Central Division.....	FF	(NA)
United States.....	111.1	(NA)	Tennessee.....	EE	(NA)
Northeast Region.....	EE	(NA)	Alabama.....	CC	(NA)
Middle Atlantic Division.....	EE	(NA)	West South Central Division.....	31.9	(NA)
New York.....	EE	(NA)	Arkansas.....	EE	(NA)
Pennsylvania.....	CC	(NA)	Oklahoma.....	CC	(NA)
North Central Region.....	GG	(NA)	Texas.....	AA	(NA)
East North Central Division.....	GG	(NA)	West Region.....	FF	(NA)
Ohio.....	GG	(NA)	Mountain Division.....	CC	(NA)
South Region.....	BB	(NA)	Colorado.....	CC	(NA)
South Atlantic Division.....	CC	(NA)	Pacific Division.....	CC	(NA)
Maryland.....	AA	(NA)	Washington.....	BB	(NA)
North Carolina.....	BB	(NA)	California.....	BB	(NA)
West Region.....	40.0	(NA)	ALUMINUM AND ALUMINUM-BASE ALLOY WIRE (WIREDRAWING PLANTS) (33571)		
Mountain Division.....	FF	(NA)	United States.....	153.6	(NA)
New Mexico.....	BB	(NA)	Northeast Region.....	43.5	(NA)
Nevada.....	FF	(NA)	New England Division.....	CC	(NA)
Pacific Division.....	EE	(NA)	New Hampshire.....	CC	(NA)
Oregon.....	CC	(NA)	Connecticut.....	BB	(NA)
California.....	CC	(NA)	Middle Atlantic Division.....	FF	(NA)
PRECIOUS METAL MILL SHAPES (33563)			New York.....	EE	(NA)
United States.....	364.0	(NA)	New Jersey.....	4.5	(NA)
Northeast Region.....	313.9	(NA)	Pennsylvania.....	13.6	(NA)
New England Division.....	162.9	(NA)	North Central Region.....	20.1	(NA)
Massachusetts.....	GG	(NA)	East North Central Division.....	EE	(NA)
Rhode Island.....	BB	(NA)	Indiana.....	BB	(NA)
Connecticut.....	GG	(NA)	Illinois.....	EE	(NA)
Middle Atlantic Division.....	151.0	(NA)	West North Central Division.....	BB	(NA)
New York.....	GG	(NA)	Iowa.....	AA	(NA)
New Jersey.....	FF	(NA)	Missouri.....	BB	(NA)
North Central Region.....	FF	(NA)	South Region.....	55.0	(NA)
East North Central Division.....	FF	(NA)	South Atlantic Division.....	7.3	(NA)
Illinois.....	FF	(NA)	South Carolina.....	AA	(NA)
West Region.....	FF	(NA)	Georgia.....	CC	(NA)
Pacific Division.....	FF	(NA)	East South Central Division.....	FF	(NA)
California.....	FF	(NA)	Kentucky.....	AA	(NA)
ALL OTHER NONFERROUS METAL MILL SHAPES (33569)			Alabama.....	FF	(NA)
United States.....	344.6	(NA)	West South Central Division.....	EE	(NA)
Northeast Region.....	124.9	(NA)	Arkansas.....	CC	(NA)
New England Division.....	20.7	(NA)	Texas.....	EE	(NA)
Maine.....	AA	(NA)	West Region.....	35.0	(NA)
Massachusetts.....	BB	(NA)	Pacific Division.....	35.0	(NA)
COPPER AND COPPER-BASE ALLOY WIRE FOR ELECTRIC TRANSMISSION (33572)			Washington.....	EE	(NA)
United States.....	353.1	372.8	California.....	EE	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COPPER AND COPPER-BASE ALLOY WIRE FOR ELECTRIC TRANSMISSION (33572)--Continued			COMMUNICATION WIRE AND CABLE (33574)--Continued		
Northeast Region.....	169.9	206.6	South Region.....	GG	247.1
New England Division.....	27.1	23.8	South Atlantic Division.....	265.7	202.7
New Hampshire.....	AA	(NA)	Maryland.....	GG	GG
Massachusetts.....	17.9	EE	North Carolina.....	GG	38.4
Rhode Island.....	BB	CC	South Carolina.....	EE	FF
Connecticut.....	EE	4.2	Georgia.....	FF	EE
Middle Atlantic Division.....	142.8	182.8	Florida.....	EE	(NA)
New York.....	67.6	GG	East South Central Division.....	CC	(NA)
New Jersey.....	91.4	99.6	Kentucky.....	BB	(NA)
Pennsylvania.....	2.7	(NA)	Mississippi.....	BB	(NA)
North Central Region.....	153.6	139.3	West South Central Division.....	76.9	FF
East North Central Division.....	GG	GG	Arkansas.....	FF	BB
Indiana.....	GG	GG	Texas.....	52.3	39.2
Illinois.....	5.5	FF	West Region.....	GG	38.2
Michigan.....	CC	(NA)	Mountain Division.....	GG	(NA)
West North Central Division.....	GG	FF	Arizona.....	GG	(NA)
Missouri.....	GG	FF	Pacific Division.....	FF	38.2
South Region.....	15.6	EE	California.....	FF	38.2
South Atlantic Division.....	EE	EE	NONFERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (33575 AND 34965)		
North Carolina.....	AA	AA	United States.....	83.7	90.1
Georgia.....	EE	EE	Northeast Region.....	37.1	38.1
East South Central Division.....	BB	(NA)	New England Division.....	16.0	7.5
Kentucky.....	BB	(NA)	Massachusetts.....	CC	BB
West Region.....	14.0	EE	Connecticut.....	10.5	BB
Mountain Division.....	CC	(NA)	Middle Atlantic Division.....	21.1	30.7
Arizona.....	CC	(NA)	New Jersey.....	BB	8.2
Pacific Division.....	CC	EE	Pennsylvania.....	15.4	19.6
California.....	CC	EE	North Central Region.....	21.1	27.7
OTHER BARE NONFERROUS METAL WIRE (WIREDRAWERS) (33573)			East North Central Division.....	23.7	FF
United States.....	59.5	(NA)	Ohio.....	EE	EE
Northeast Region.....	39.0	(NA)	Illinois.....	BB	(NA)
New England Division.....	10.6	(NA)	Michigan.....	AA	(NA)
Massachusetts.....	2.9	(NA)	Wisconsin.....	CC	EE
Rhode Island.....	BB	(NA)	South Region.....	27.8	23.3
Connecticut.....	BB	(NA)	South Atlantic Division.....	EE	13.3
Middle Atlantic Division.....	28.4	(NA)	Georgia.....	EE	8.0
New York.....	9.4	(NA)	Florida.....	3.7	(NA)
New Jersey.....	CC	(NA)	East South Central Division.....	14.2	CC
Pennsylvania.....	CC	(NA)	Alabama.....	CC	(NA)
North Central Region.....	19.7	(NA)	Mississippi.....	CC	BB
East North Central Division.....	19.7	(NA)	West Region.....	AA	(NA)
Ohio.....	CC	(NA)	Pacific Division.....	AA	(NA)
Michigan.....	EE	(NA)	APPLIANCE WIRE, CORD, ETC., IN INSULATING ESTABLISHMENTS (33576 AND 36996)		
COMMUNICATION WIRE AND CABLE (33574)			United States.....	366.3	282.0
United States.....	1,316.0	901.9	Northeast Region.....	222.5	156.7
Northeast Region.....	407.2	352.3	New England Division.....	174.0	123.9
New England Division.....	190.9	187.2	Massachusetts.....	37.9	28.5
New Hampshire.....	EE	EE	Rhode Island.....	107.8	68.9
Vermont.....	BB	CC	Connecticut.....	EE	FF
Massachusetts.....	GG	60.3	Middle Atlantic Division.....	48.7	32.8
Rhode Island.....	52.0	35.5	New York.....	22.8	17.9
Connecticut.....	64.1	65.2	New Jersey.....	10.3	4.6
Middle Atlantic Division.....	216.3	165.1	Pennsylvania.....	15.6	10.3
New York.....	101.9	GG	North Central Region.....	101.1	93.7
New Jersey.....	109.3	93.3	East North Central Division.....	GG	GG
Pennsylvania.....	5.1	AA	Ohio.....	20.0	EE
North Central Region.....	365.3	271.5	Indiana.....	36.9	33.3
East North Central Division.....	GG	GG	Illinois.....	25.6	21.1
Indiana.....	FF	FF	Michigan.....	EE	17.7
Illinois.....	GG	132.5	Wisconsin.....	AA	(¹)
Michigan.....	EE	EE	West North Central Division.....	AA	CC
Wisconsin.....	AA	(NA)	Minnesota.....	AA	(¹)
West North Central Division.....	GG	GG	South Region.....	FF	12.4
Minnesota.....	AA	CC	South Atlantic Division.....	EE	CC
Iowa.....	CC	(NA)	North Carolina.....	CC	BB
Missouri.....	EE	CC	South Carolina.....	CC	AA
Nebraska.....	GG	CC			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
APPLIANCE WIRE, CORD, ETC., IN INSULATING ESTABLISHMENTS (33576 AND 36996)--Continued			OTHER INSULATED WIRE AND CABLE, N.E.C. (33579)		
South Region--Continued			United States.....	956.5	745.9
East South Central Division.....	CC	BB	Northeast Region.....	521.9	466.5
Kentucky.....	CC	BB	New England Division.....	221.0	189.5
Tennessee.....	AA	(¹)	Maine.....	EE	(NA)
West South Central Division.....	AA	AA	Massachusetts.....	FF	FF
Arkansas.....	AA	(¹)	Rhode Island.....	117.3	92.6
West Region.....	EE	19.2	Connecticut.....	54.9	56.8
Pacific Division.....	EE	19.2	Middle Atlantic Division.....	299.0	277.0
California.....	EE	19.2	New York.....	175.9	131.9
MAGNETIC WIRE (33577)			New Jersey.....	91.0	108.6
United States.....	548.8	449.6	Pennsylvania.....	32.1	36.5
Northeast Region.....	54.7	83.5	North Central Region.....	184.8	159.6
New England Division.....	FF	14.2	East North Central Division.....	147.7	GG
Connecticut.....	EE	10.0	Ohio.....	FF	FF
Middle Atlantic Division.....	FF	69.3	Indiana.....	45.2	GG
New York.....	FF	GG	Illinois.....	31.0	29.6
North Central Region.....	374.6	340.2	Michigan.....	FF	45.6
East North Central Division.....	GG	GG	West North Central Division.....	37.1	CC
Ohio.....	EE	EE	Missouri.....	FF	CC
Indiana.....	215.6	194.2	Kansas.....	EE	(NA)
Illinois.....	63.0	71.4	South Region.....	162.5	65.7
Michigan.....	FF	FF	South Atlantic Division.....	102.5	FF
West North Central Division.....	FF	FF	Maryland.....	CC	EE
Missouri.....	FF	FF	North Carolina.....	CC	(NA)
South Region.....	119.5	FF	South Carolina.....	CC	(NA)
South Atlantic Division.....	GG	CC	Georgia.....	GG	FF
Virginia.....	FF	(NA)	East South Central Division.....	FF	EE
North Carolina.....	EE	CC	Tennessee.....	FF	EE
Georgia.....	BB	(NA)	West South Central Division.....	FF	EE
East South Central Division.....	GG	EE	Louisiana.....	EE	(NA)
Kentucky.....	GG	EE	Texas.....	FF	EE
Mississippi.....	BB	(NA)	West Region.....	89.1	54.1
POWER WIRE AND CABLE (33578)			Mountain Division.....	EE	(NA)
United States.....	499.7	424.0	Arizona.....	BB	(NA)
Northeast Region.....	302.6	348.7	Utah.....	CC	(NA)
New England Division.....	121.8	127.1	Pacific Division.....	GG	54.1
Maine.....	EE	(NA)	Washington.....	CC	BB
Vermont.....	CC	AA	California.....	70.9	GG
Massachusetts.....	12.8	FF	METAL POWDERS AND PASTE (33991)		
Rhode Island.....	46.6	43.6	United States.....	322.7	(NA)
Connecticut.....	GG	50.8	Northeast Region.....	145.1	(NA)
Middle Atlantic Division.....	180.8	221.6	New England Division.....	CC	(NA)
New York.....	67.6	GG	Massachusetts.....	CC	(NA)
New Jersey.....	88.6	115.5	Connecticut.....	BB	(NA)
Pennsylvania.....	24.7	EE	Middle Atlantic Division.....	GG	(NA)
North Central Region.....	69.9	FF	New York.....	CC	(NA)
East North Central Division.....	GG	FF	New Jersey.....	61.9	(NA)
Ohio.....	BB	BB	Pennsylvania.....	67.3	(NA)
Indiana.....	FF	FF	North Central Region.....	95.9	(NA)
Illinois.....	16.7	3.4	East North Central Division.....	92.7	(NA)
West North Central Division.....	CC	EE	Ohio.....	26.9	(NA)
Missouri.....	CC	BB	Indiana.....	20.5	(NA)
South Region.....	78.1	EE	Illinois.....	CC	(NA)
South Atlantic Division.....	FF	CC	Michigan.....	30.8	(NA)
Delaware.....	CC	(NA)	Wisconsin.....	CC	(NA)
Maryland.....	BB	CC	West North Central Division.....	3.2	(NA)
North Carolina.....	CC	(NA)	Missouri.....	AA	(NA)
South Carolina.....	CC	BB	Kansas.....	AA	(NA)
Georgia.....	CC	(NA)	South Region.....	64.5	(NA)
East South Central Division.....	EE	(NA)	South Atlantic Division.....	6.7	(NA)
Kentucky.....	EE	(NA)	Virginia.....	BB	(NA)
West South Central Division.....	33.1	AA	Florida.....	AA	(NA)
Arkansas.....	EE	(NA)	East South Central Division.....	29.4	(NA)
Texas.....	EE	AA	Kentucky.....	EE	(NA)
West Region.....	49.0	17.8	Tennessee.....	EE	(NA)
Pacific Division.....	GG	17.8	Alabama.....	BB	(NA)
Washington.....	AA	(NA)	West South Central Division.....	28.4	(NA)
California.....	FF	17.8	Oklahoma.....	CC	(NA)
			Texas.....	FF	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
METAL POWDERS AND PASTE (33991)—Continued			OTHER PRIMARY METAL PRODUCTS (NAILS, SPIKES, AND STAPLES) (33992)—Continued		
West Region.....	17.2	(NA)	North Central Region.....	39.7	(NA)
Mountain Division.....	CC	(NA)	East North Central Division.....	36.1	(NA)
Arizona.....	AA	(NA)	Ohio.....	10.4	(NA)
Nevada.....	CC	(NA)	Indiana.....	EE	(NA)
Pacific Division.....	EE	(NA)	Illinois.....	CC	(NA)
Oregon.....	BB	(NA)	Michigan.....	7.1	(NA)
California.....	CC	(NA)	Wisconsin.....	AA	(NA)
OTHER PRIMARY METAL PRODUCTS (NAILS, SPIKES, AND STAPLES) (33992)			West North Central Division.....	3.6	(NA)
United States.....	93.8	(NA)	Iowa.....	AA	(NA)
Northeast Region.....	33.3	(NA)	Kansas.....	AA	(NA)
New England Division.....	13.9	(NA)	South Region.....	13.3	(NA)
Maine.....	AA	(NA)	South Atlantic Division.....	AA	(NA)
Massachusetts.....	CC	(NA)	East South Central Division.....	11.8	(NA)
Rhode Island.....	AA	(NA)	Tennessee.....	CC	(NA)
Connecticut.....	CC	(NA)	Alabama.....	5.6	(NA)
Middle Atlantic Division.....	19.4	(NA)	West Region.....	7.5	(NA)
New York.....	3.4	(NA)	Mountain Division.....	AA	(NA)
New Jersey.....	3.9	(NA)	Utah.....	AA	(NA)
Pennsylvania.....	12.1	(NA)	Pacific Division.....	CC	(NA)
			California.....	CC	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

¹This State or division was not shown as a separate line in table 6B in the 1967 report for this industry.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3351	Copper rolling and drawing.....	2,825.0	2,616.0	2,894.8	2,819.4	2,420.4	2,216.8	1,544.5	1,034.4
33511	Copper and copper-base alloy wire, not electrical.....	157.9	125.7	137.0	131.9	110.3	95.6	73.2	47.8
33513	Copper and copper-base alloy rod, bar, and shapes.....	1,170.9	2,490.3	2,757.8	2,687.5	2,310.1	2,105.1	1,471.4	986.6
33514	Copper and copper-base alloy sheet, strip, and plate.....	705.9							
33515	Copper and copper-base alloy pipe and tube.....	761.8							
33510	Rolled and drawn copper, n.s.k.....	28.5	-	-	-	-	16.1	-	-
3353	Aluminum sheet, plate, and foil.....	2,238.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33531	Aluminum plate.....	89.5	1,628.9	1,528.3	1,613.0	1,462.6	1,249.4	850.5	646.1
33532	Aluminum sheet.....	1,897.4							
33533	Plain aluminum foil.....	216.8							
33534	Aluminum welded tube.....	34.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3354	Aluminum extruded products.....	1,026.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33541	Extruded aluminum rod, bar, and other extruded shapes.....	781.5	640.4	583.4	686.0	632.9	565.7	397.3	272.1
33542	Aluminum extruded and drawn tube.....	212.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33540	Aluminum extruded products, n.s.k.....	32.5	19.0	(18.6)	37.4	40.7	44.8	11.7	(NA)
3355	Aluminum rolling and drawing, n.e.c. ³	530.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33551	Aluminum and aluminum-base alloy wire (made in industry 3355).....	61.0	45.5	41.5	58.2	85.8	75.0	127.9	100.9
33552	Rolled aluminum rod, bar (including contiguous cast), and structural shapes.....	303.0	244.6	229.7	280.1	289.7	257.6	145.2	110.5
33553	Aluminum ingot, produced in aluminum rolling mills.....	120.0	55.5	51.8	76.4	53.6	55.4	49.0	(NA)
33554	Aluminum extrusion billet, produced in aluminum rolling mills.....	46.6	57.9	61.2	57.9	43.6	30.8	48.7	(NA)

See footnotes at end of table.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972—Continued

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3356	Nonferrous rolling and drawing, n.e.c. ³	1,075.6	909.8	955.3	1,024.7	922.2	1,012.0	630.5	428.2
33561	Nickel and nickel-base alloy mill shapes.....	270.4	909.8	955.3	1,024.7	922.2	1,012.0	630.5	428.2
33562	Titanium mill shapes.....	111.1							
33563	Precious metal mill shapes.....	364.0							
33569	All other nonferrous metal mill shapes (made in industry 3356).....	285.1							
33560	Rolled and drawn nonferrous metals, n.e.c.....	45.0							
3357	Nonferrous wire and drawing and insulating ³	4,224.5	3,733.5	3,966.8	3,603.3	3,180.1	3,650.9	2,185.0	1,635.0
33571	Aluminum and aluminum-base alloy wire, wire and plants..	153.6	188.4	197.6	172.6	161.8	176.9	(NA)	(NA)
33572	Copper and copper-base alloy wire for electrical transmission.....	353.1	330.2	410.9	420.1	373.1	372.8	245.0	156.5
33573	Other bare nonferrous metal wire (wire drawers).....	59.5	64.9	64.4	52.8	44.1	40.5	(NA)	(NA)
33574	Communication wire and cable.....	1,316.0	1,180.6	1,231.7	1,028.5	846.7	909.1	581.8	365.4
33575	Nonferrous wire cloth and other woven wire (wire drawers)...	33.9	24.0	30.7	38.1	37.0	36.2	(NA)	(NA)
33576	Appliance wire and cord, etc., in insulating establishments..	262.9	195.2	188.6	191.6	183.2	184.2	(NA)	(NA)
33577	Magnet wire.....	548.8	433.7	537.6	488.6	404.1	449.6	258.3	183.4
33578	Power wire and cable.....	499.7	423.6	456.5	409.6	368.3	424.0	218.8	194.8
33579	Other insulated wire and cable, n.e.c.....	956.5	850.0	809.6	762.9	725.2	745.9	454.1	441.9
33570	Nonferrous wire and drawing and insulating, n.s.k.....	40.5	42.9	(39.2)	38.5	36.6	50.4	15.4	9.2
33980	Heat treating of metal for the trade.....	454.1	239.7	264.3	292.2	305.2	274.9	140.3	85.3
3399	Primary metal products, n.e.c.....	416.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33991	Metal powders and paste.....	322.7	220.5	230.8	276.0	247.0	227.8	106.8	55.1
33992	Other primary metal products (nails, spikes, and staples)..	93.8	52.6	55.9	57.5	47.6	43.1	11.2	2.1
Product Classes Primary to Two Industries or More									
(The share from each industry is shown in addition to the total for all industries.)									
33551	Aluminum and Aluminum-Base Alloy Wire (Including ACSR), Total for All Industries.....	214.6	233.9	239.1	230.8	247.6	251.9	127.9	100.9
33571	Made in aluminum rolling mills (industry 3355).....	61.0	45.5	41.5	58.2	85.8	75.0	127.9	100.9
	Made in nonferrous wire and drawing plants (industry 3357) and other industries.....	153.6	188.4	197.6	172.6	161.8	176.9		
33553	Aluminum ingot, total for all industries.....	1,970.7	1,724.7	1,818.7	1,923.8	1,768.8	1,669.1	1,226.5	(NA)
	Made in aluminum rolling mills (industries 3353, 3354, and 3355).....	120.0	55.5	51.8	76.4	53.6	55.4	49.0	(NA)
33347	Made in primary aluminum reduction plants (industry 3334)..	1,509.7	1,315.9	1,402.6	1,492.2	1,380.8	1,324.1	946.8	(NA)
33417	Made in secondary smelters (industry 3341) and other industries.....	341.0	353.3	364.3	355.2	334.4	289.6	230.7	(NA)
33554	Aluminum extrusion billet, total for all industries.....	319.4	343.6	376.6	341.7	337.4	279.0	185.4	(NA)
	Made in aluminum rolling mills (industries 3353, 3354, and 3355).....	46.6	57.9	61.2	57.9	43.6	30.8	48.7	(NA)
33348	Made in primary aluminum reduction plants (industry 3334)..	244.8	230.5	263.3	231.5	244.3	211.4	122.8	(NA)
33418	Made in secondary smelters (industry 3341) and other industries.....	28.0	55.2	52.1	52.3	49.5	36.8	13.9	(NA)
3356992	Other bare nonferrous metal wire, total for all industries...	120.9	(NA)	(NA)	(NA)	(NA)	75.1	(NA)	(NA)
	Wire, made in nonferrous rolling and drawing, n.e.c. (industry 3356).....	61.4	(NA)	(NA)	(NA)	(NA)	34.6	(NA)	(NA)
33573	Made in nonferrous wire and drawing plants (industry 3357) and other industries.....	59.5	64.9	64.4	52.8	44.1	40.5	(NA)	(NA)
33575	Nonferrous wire cloth and other woven wire, total for all industries.....	83.7	87.8	97.4	81.7	107.9	90.0	70.5	(NA)
34965	Made in nonferrous wire and drawing plants (industry 3357).....	33.9	24.0	30.7	38.1	37.0	36.2	70.5	(NA)
	Made in fabricated wire products, n.e.c., (industry 3496) and other industries.....	49.8	63.8	66.7	43.6	70.9	53.8		
33576	Appliance wire and cord and flexible cord sets, total for all industries.....	366.3	317.0	300.4	347.1	285.0	282.0	167.7	127.1
36996	Made in nonferrous wire and drawing and insulating (industry 3357).....	262.9	195.2	188.6	191.6	183.2	184.2	-	-
	Made in electrical equipment and supplies, n.e.c. (industry 3699) and other industries.....	103.4	121.8	111.8	155.5	101.8	97.8	167.7	127.1

- Represents zero. (NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²Includes shipments of laminated foil produced in foil mills. In 1958, these shipments were valued at \$36,787 thousand. In 1963 and later years, this product is included in product class 34970.

³Some or all of the products primary to this industry are also primary to one or more other industries. The 4-digit product-group totals exclude the values produced by the other primary industries, and, therefore, are not comparable to product-group (4-digits) and product-class (5-digits) totals shown in table 6A-1 and table 6B, respectively.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3351.--COPPER ROLLING AND DRAWING ¹					
	Materials, containers, and supplies, total.....	1,000 s. tons.	(X)	² 2,234.2	(X)	1,587.0
	Nonferrous metals and alloys (ingot, pig, shot, etc.):					
333404	Aluminum, unalloyed.....	...do.....	20.9	15.1	71.5	35.4
333405	Aluminum-base alloys.....	...do.....	15.7	10.7		
333121	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	...do.....	1,168.4	1,094.4	801.8	673.8
333113	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	...do.....	150.4	138.2	202.1	188.1
333232	Lead and lead-base alloys.....	...do.....	5.4	1.7	3.1	.9
333973	Magnesium and magnesium-base alloys.....	...do.....	.2	.2	.2	.2
333971	Nickel and nickel-base alloys.....	...do.....	7.1	19.8	6.7	12.3
333348	Zinc and zinc-base alloys.....	...do.....	138.0	50.8	94.4	28.0
333981	Molybdenum and molybdenum-base alloys.....	Million lb....	(D)	(D)	2.8	6.6
333983	Tin and tin-base alloys.....	...do.....	2.3	4.7		
333985	Vanadium and vanadium-base alloys.....	...do.....	(D)	(D)		
333909	Other nonferrous metals and alloys.....	1,000 s. tons.	10.0	12.2		
	Nonferrous metal scrap (excluding home scrap):					
	Aluminum and aluminum-base alloy:					
999809	From other establishments of the same company.....	...do.....	24.7	21.1	47.2	21.0
999810	From other sources, excluding home scrap.....	...do.....				
999812	Copper and copper-base alloy.....	...do.....	638.4	508.5	485.3	342.8
999814	Zinc and zinc-base alloy, including drosses and skimming.....	...do.....	7.0	2.5	(D)	(D)
	Aluminum and aluminum-base alloy mill shapes (rod, bar, sheets, etc.):					
335304	Sheet, plate and foil.....	Million lb....	(D)	(D)	(D)	(D)
335406	Extruded shapes.....	...do.....				
335001	All other.....	...do.....				
335100	Brass mill shapes (rod, bar, sheet, etc.).....	1,000 s. tons.	50.5	53.5	66.0	61.3
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	266.3	(X)	² 157.9
976000	Materials, containers, parts, and supplies, n.s.k. ³.....	.....	(X)	25.9	(X)	58.7
		Unit of measure	1972			
			Quantity		Delivered cost	
					(million dollars)	
	INDUSTRY 3353.--ALUMINUM SHEET, PLATE, AND FOIL ⁴					
	Materials, containers, and supplies, total.....	.....			(X)	1,897.6
	Nonferrous metals and alloys (ingot, pig, shot, etc.):					
333404	Aluminum, unalloyed.....	1,000 s. tons.....		1,284.9		589.7
333405	Aluminum-base alloys.....	...do.....		1,033.9		483.5
333121	Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....	...do.....		2.9		3.0
333113	Copper-base alloy raw materials (ingots, billets, shot, waffle, hardeners, etc.).....	...do.....		2.3		2.8
333973	Magnesium and magnesium-base alloys.....	...do.....		23.2		16.4
333348	Zinc and zinc-base alloys.....	...do.....		2.9		1.1
333983	Tin and tin-base alloys.....	Million lb.....		(D)		(D)
333985	Vanadium and vanadium-base alloys.....	...do.....		.1		.1
333909	Other nonferrous metals and alloys.....	1,000 s. tons.....		82.8		31.0
	Nonferrous metal scrap (except home scrap):					
	Aluminum and aluminum-base alloy:					
999809	From other establishments of the same company.....	...do.....		89.0		35.7
999810	From other sources.....	...do.....		185.5		72.4
999812	Copper and copper-base alloy.....	...do.....		(D)		(D)
	Aluminum and aluminum-base alloy mill shapes: ⁵					
335304	Sheet, plate and foil.....	Million lb.....		973.6		317.5
335406	Extruded shapes.....	...do.....		(D)		(D)
335001	All other.....	...do.....		(D)		(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....		(X)		212.9
976000	Materials, parts, containers and supplies, n.s.k. ³.....	.....		(X)		74.8

See footnotes at end of table.

(See appendix. Explanation of Terms)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3356.--NONFERROUS ROLLING AND DRAWING, N.E.C.--Continued					
	Materials, containers, and supplies--Continued					
	Nonferrous metals and alloys (ingot, pig, shot, etc.)--Continued					
333971	Nickel and nickel-base alloys.....	1,000 s. tons.	49.8	183.6	43.5	81.3
333348	Zinc and zinc-base alloys.....	..do.....	38.9	13.9	38.3	10.0
333981	Molybdenum and molybdenum-base alloys.....	Million lb....	3.3	6.0		
333983	Tin and tin-base alloys.....	..do.....	8.8	17.6		
333985	Vanadium and vanadium-base alloys.....	..do.....	(D)	(D)	(NA)	182.7
333987	Tungsten and tungsten-base alloys.....	..do.....	6.1	16.8		
333909	Other nonferrous metals and alloys.....	1,000 s. tons.	131.1	251.1		
	Nonferrous metal scrap (excluding home scrap):					
	Aluminum and aluminum-base alloy:					
999809	From other establishments of your company.....	..do.....	-	-	(D)	(D)
999810	From all other sources (excluding home scrap).....	..do.....	(D)	(D)	(D)	(D)
999812	Copper and copper-base alloy.....	..do.....	-	-	(D)	(D)
999814	Zinc and zinc-base alloy, including drosses and skimming.....	..do.....	-	-	(D)	(D)
	Aluminum and aluminum-base alloy mill shapes:					
335304	Sheet, plate, and foil.....	Million lb....				
335406	Extruded shapes.....	..do.....	(D)	(D)	(NA)	(NA)
335001	All other.....	..do.....				
335100	Brass mill shapes (rod, bar, sheet, etc.).....	1,000 s. tons.	.9	1.4	1.3	1.4
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	215.4	(X)	236.2
976000	Materials, parts, containers, and supplies, n.s.k. ³		(X)	48.2	(X)	58.9
	INDUSTRY 3357.--NONFERROUS WIREDRAWING AND INSULATING ⁴					
	Materials, containers, and supplies, total.....		(X)	² 2,862.6	(X)	2,232.5
333125	Copper and copper-base alloy wire bar.....	Million lb....	622.2	310.2	943.2	389.8
	Nonferrous metal mill shapes and forms (except castings):					
	Rods:					
335009	Aluminum and aluminum-base alloy.....	..do.....	731.3	229.2	399.1	104.0
335133	Copper, unalloyed.....	..do.....	1,337.0	706.3	1,013.9	450.2
335135	Copper-base alloy.....	..do.....	167.8	89.0	140.7	61.3
	Wire for redrawing:					
335511	Aluminum and aluminum-base alloy.....	..do.....	124.1	41.4	26.3	10.1
335112	Copper and copper-base alloy.....	..do.....	181.2	105.3	100.8	47.4
335608	Other nonferrous metals.....	..do.....	(NA)	17.1	18.9	18.6
	Bare wire (except wire for redrawing):					
335725	Copper and copper-base alloy (electrical).....	..do.....	313.5	198.6	432.8	211.3
335718	Aluminum and aluminum-base alloy.....	..do.....	161.4	24.6	23.9	9.1
	All other mill shapes and forms:					
335109	Copper and copper-base alloy, including mechanical wire.....	..do.....	45.6	29.1	30.6	23.6
335007	Aluminum and aluminum-base alloy.....	..do.....	111.8	62.6	95.5	36.6
335609	All other nonferrous metal mill shapes.....	..do.....	26.6	14.4	(NA)	8.8
335790	Insulated wire and cable for further processing (copper content).....	..do.....	22.7	23.7	73.8	51.2
333121	Refined unalloyed copper (cathodes, ingot, cakes, slabs, etc., but excluding wire bar).....	1,000 s. tons.	(D)	(D)	(D)	(D)
333976	Refined unalloyed tin.....	..do.....	2.0	4.4	(NA)	(NA)
333113	Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.).....	..do.....	(D)	(D)	(D)	(D)
999812	Copper and copper-base alloy scrap.....	..do.....	(D)	(D)	(D)	(D)
084911	Natural rubber.....	1,000 l. tons.	(D)	(D)	(D)	(D)
282202	Synthetic rubber.....	..do.....	59.3	28.2	49.3	28.7
282101	Polyethylene plastics, all forms.....	Million lb....	1,163.4	116.0	263.7	61.0
282102	Vinyl plastics, all forms.....	..do.....	1,142.7	92.0	356.8	65.7
228102	Cotton yards.....	..do.....	15.5	13.1	8.3	6.5
970099	All other materials and components, parts, containers and supplies consumed.....		(X)	520.1	(X)	² 518.7
976000	Materials, containers, parts, and supplies, n.s.k. ³		(X)	51.9	(X)	129.9

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Data exclude tonnages of copper materials processed on a toll basis. Most of the material involved in toll processing is owned by establishments classified in other industries, principally industry 3357, Nonferrous Wiredrawing and Insulating. As table 6A-1 shows, unalloyed copper rod, bar, and shapes (product code 33513 11) is, by far, the most important mill product on a toll basis.²Includes cost for materials indicated by the symbol (D).³This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.⁴Data exclude tonnages of nonferrous materials processed on a toll basis.⁵Excludes quantities produced and consumed in the same establishment.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3351.--COPPER ROLLING AND DRAWING					
	Purchased fuels and electric energy.....		(X)	39.8	(X)	30.7
	Purchased fuels, total.....		(X)	16.5	(X)	12.9
121005	Coal.....	1,000 s. tons.....	55.7	.6	92.2	.7
331212	Coke.....	..do.....	(S)	(Z)	(D)	(D)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,067.6	4.4	1,291.4	3.2
291141	Distillate.....	..do.....	313.3	1.3	552.2	1.5
291151	Residual.....	..do.....	754.3	3.0	736.2	1.7
131300	Natural gas.....	Billion ft ³	14.6	9.4	9.5	6.7
960011	Other fuels.....	.....	(X)	1.2	(X)	(D)
975000	Fuels, n.s.k.....	.....	(X)	.9	(X)	1.7
960012	Purchased electric energy.....	Million kWh.....	1,928.7	23.3	1,681.0	17.8
	Quantity of electric energy generated less quantity sold....	..do.....	120.1	-	100.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	9.5	-	8.9	-
	INDUSTRY 3353.--ALUMINUM SHEET, PLATE, AND FOIL; INDUSTRY 3354.--ALUMINUM EXTRUDED PRODUCTS; and INDUSTRY 3355.--ALUMINUM ROLLING AND DRAWING, N.E.C.					
	Purchased fuels and electric energy.....		(X)	77.9	(X)	54.0
	Purchased fuels, total.....		(X)	37.3	(X)	25.3
121005	Coal.....	1,000 s. tons.....	120.2	1.5	(D)	(D)
331212	Coke.....	..do.....	(S)	(Z)	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	401.0	1.9	711.9	2.5
291141	Distillate.....	..do.....	364.3	1.7	508.5	2.1
291151	Residual.....	..do.....	36.7	.2	203.4	.4
131300	Natural gas.....	Billion ft ³	59.2	30.3	41.0	19.3
960011	Other fuels.....	.....	(X)	1.7	(X)	(D)
975000	Fuels, n.s.k.....	.....	(X)	1.9	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	4,760.8	40.6	3,862.7	28.7
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	25.9	-	19.6	-
	INDUSTRY 3356.--NONFERROUS ROLLING AND DRAWING, N.E.C.					
	Purchased fuels and electric energy.....		(X)	16.2	(X)	14.2
	Purchased fuels, total.....		(X)	6.4	(X)	6.0
121005	Coal.....	1,000 s. tons.....	23.9	.3	31.5	.2
331212	Coke.....	..do.....	(S)	.2	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	93.2	.4	121.3	.2
291141	Distillate.....	..do.....	71.8	.3	33.9	.1
291151	Residual.....	..do.....	21.4	.1	87.4	.1
131300	Natural gas.....	Billion ft ³	8.1	4.5	7.8	4.3
960011	Other fuels.....	.....	(X)	.4	(X)	.2
975000	Fuels, n.s.k.....	.....	(X)	.5	(X)	1.2
960012	Purchased electric energy.....	Million kWh.....	952.0	9.8	962.8	8.2
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(Z)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.2	-	4.5	-
	INDUSTRY 3357.--NONFERROUS WIREDRAWING AND INSULATING					
	Purchased fuels and electric energy.....		(X)	39.5	(X)	31.1
	Purchased fuels, total.....		(X)	11.1	(X)	9.2
121005	Coal.....	1,000 s. tons.....	26.2	.3	59.4	.6
331212	Coke.....	..do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	776.7	3.4	825.2	2.3
291141	Distillate.....	..do.....	478.0	2.2	248.3	.9
291151	Residual.....	..do.....	298.7	1.2	576.9	1.4
131300	Natural gas.....	Billion ft ³	9.5	5.8	6.7	4.1
960011	Other fuels.....	.....	(X)	.8	(X)	.4
975000	Fuels, n.s.k.....	.....	(X)	.8	(X)	1.7
960012	Purchased electric energy.....	Million kWh.....	2,269.3	28.4	1,884.8	21.9
	Quantity of electric energy generated less quantity sold....	..do.....	1.0	-	1.3	-
	Total energy used for heat and power.....	Bil. kWh equiv....	7.4	-	7.1	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3398.--METAL HEAT TREATING and INDUSTRY 3399.--PRIMARY METAL PRODUCTS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	33.1	(X)	28.0
	Purchased fuels, total.....		(X)	18.0	(X)	13.8
121005	Coal.....	1,000 s. tons.....	4.6	(Z)	4.2	.1
331212	Coke.....	..do.....	(S)	.1	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	367.8	1.2	185.2	.8
291141	Distillate.....	..do.....	101.0	.4	104.5	.4
291151	Residual.....	..do.....	266.8	.7	80.7	.4
131300	Natural gas.....	Billion ft ³	21.2	12.1	14.0	8.4
960011	Other fuels.....		(X)	2.6	(X)	.5
975000	Fuels, n.s.k.....		(X)	2.0	(X)	3.9
960012	Purchased electric energy.....	Million kWh.....	1,296.2	15.1	851.6	14.2
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	10.1	-	8.1	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown.

TABLE 8. Departmental Operations, by Subindustry: 1972 and 1967

Operation	Man-hours of production workers (millions)			Production worker wages (million dollars)		
	Total	Establishments with casting department	Establishments without casting department	Total	Establishments with casting department	Establishments without casting department
INDUSTRY 3351.--COPPER ROLLING AND DRAWING						
1972						
All departments.....	63.1	39.2	23.9	288.1	188.8	99.3
Casting (except foundry).....	5.1	5.1	-	25.7	25.7	-
Rod mill.....	5.9	3.9	2.0	28.3	19.4	8.9
Wire mill (including stranding mill).....	4.4	1.1	3.3	17.8	5.5	12.3
Tube mill.....	13.4	7.1	6.3	57.0	30.9	26.1
Flat products mill.....	9.9	6.6	3.3	48.1	33.9	14.2
Foundry (nonferrous).....	1.1	-	1.1	4.8	-	4.8
Machine shop and tool and die shop.....	3.1	2.4	.7	14.9	11.8	3.1
Heat treating and annealing.....	.7	.5	.2	3.4	2.5	.9
Other manufacturing or fabricating departments.....	5.1	3.9	1.2	22.3	17.4	4.9
All other, including service or auxiliary operations.....	9.7	8.0	1.7	45.9	38.5	7.4
Not specified.....	4.7	.6	4.1	19.9	3.2	16.7
1967						
All departments.....	64.5	45.5	19.0	219.0	158.2	60.8
Casting (except foundry).....	4.6	4.6	-	16.1	16.0	-
Rod mill.....	4.5	3.5	1.0	15.4	12.3	3.0
Wire mill (including stranding mill).....	2.0	1.3	.7	5.1	2.9	2.2
Tube mill.....	13.5	8.7	4.8	44.0	28.2	15.8
Flat products mill.....	10.8	7.9	2.9	39.1	27.3	11.8
Foundry (nonferrous).....	1.1	.6	.5	4.2	2.3	1.9
Machine shop and tool and die shop.....	4.0	3.1	.9	15.8	11.5	3.3
Heat treating and annealing.....	1.0	.7	.2	3.1	2.4	.7
Other manufacturing or fabricating departments.....	3.9	3.1	.8	13.8	11.4	2.3
All other, including service or auxiliary operations.....	10.9	9.4	1.5	40.6	35.1	5.5
Not specified.....	8.2	2.6	5.7	21.8	8.8	14.3

See footnotes at end of table.

TABLE 8. Departmental Operations, by Subindustry: 1972 and 1967—Continued

Operation		Man-hours of production workers (millions)			Production worker wages (million dollars)		
		Total	Establishments with melting facilities	Establishments without melting facilities	Total	Establishments with melting facilities	Establishments without melting facilities
		INDUSTRY 3353.--ALUMINUM SHEET, PLATE, AND FOIL ¹					
1972							
All departments.....		51.9	29.7	22.2	281.9	164.4	117.5
Melting (except foundry).....		4.3	(D)	(D)	23.0	(D)	(D)
Sheet and plate mill.....		18.8	12.2	6.6	101.6	67.3	34.3
Foil rolling mill (excluding conversion or subsequent operations)..<		3.3	.8	2.5	16.4	4.5	11.9
Extrusion department (rod, bar, tube, pipe, etc.).....		.9	(D)	(D)	3.7	(D)	(D)
Tube mill (drawn and welded).....		(D)	(D)	(D)	(D)	(D)	(D)
Wire, rod and bar mill (excluding extruded).....		-	-	-	-	-	-
Electrical conductor department (ACSR, insulated, etc.).....		-	-	-	-	-	-
Forging and impact extrusions.....		(D)	(D)	(D)	(D)	(D)	(D)
Foundry (nonferrous).....		-	-	-	-	-	-
Machine shop and tool and die shop.....		2.0	(D)	(D)	11.5	(D)	(D)
Other manufacturing or fabricating departments.....		3.2	1.5	1.7	15.9	7.4	8.5
All other, including service or auxiliary operations.....		10.0	(D)	(D)	58.8	(D)	(D)
Not specified.....		9.2	.1	9.1	49.8	.5	49.3
		INDUSTRY 3354.--ALUMINUM EXTRUDED PRODUCTS ¹					
1972							
All departments.....		45.4	17.9	27.5	174.1	77.9	96.2
Melting (except foundry).....		1.4	1.4	-	6.4	6.4	-
Sheet and plate mill.....		(D)	(D)	(D)	(D)	(D)	(D)
Foil rolling mill (excluding conversion or subsequent operations)..<		(D)	(D)	(D)	(D)	(D)	(D)
Extrusion department (rod, bar, tube, pipe, etc.).....		15.4	6.2	9.2	58.1	25.1	33.0
Tube mill (drawn and welded).....		2.1	(D)	(D)	(D)	(D)	(D)
Wire, rod, and bar mill (excluding extruded).....		(D)	-	(D)	(D)	-	(D)
Electrical conductor department (ACSR, insulated, etc.).....		-	-	-	-	-	-
Forging and impact extrusions.....		(D)	(D)	(D)	(D)	(D)	(D)
Foundry (nonferrous).....		.6	(D)	(D)	2.2	(D)	(D)
Machine shop and tool and die shop.....		2.4	2.1	.3	11.4	10.5	.9
Other manufacturing or fabricating departments.....		5.7	3.2	2.5	19.7	10.3	9.4
All other, including service or auxiliary operations.....		2.1	1.3	.8	10.0	6.4	3.6
Not specified.....		14.4	.7	² 13.7	54.4	7.4	² 47.0

Operation	Man-hours of production workers (millions)					Production worker wages (million dollars)				
	Total	Establishments with wiredrawing department		Establishments without wiredrawing department	Total	Establishments with wiredrawing department		Establishments without wiredrawing department		
		With rod mill	Without rod mill			With rod mill	Without rod mill			
			With insulating department				Without insulating department		With insulating department	Without insulating department
INDUSTRY 3357.--NONFERROUS WIREDRAWING AND INSULATING										
1972										
All departments.....										
Rod mill.....										
Wiredrawing and stranding mill.....										
Insulating and cabling of wire and cable, including sheathing.....										
Electroplating, galvanizing, heat treating and annealing.....										
Machine shop and tool and die shop.....										
Other manufacturing or fabricating departments, including annealing.....										
All other, including service or auxiliary operations.....										
Not specified.....										
1967										
All departments.....										
Rod mill.....										
Wiredrawing and stranding mill.....										
Insulating and cabling of wire and cable, including sheathing.....										
Electroplating, galvanizing, heat treating and annealing.....										
Machine shop and tool and die shop.....										
Other manufacturing or fabricating departments, including annealing.....										
All other, including service or auxiliary operations.....										
Not specified.....										

Note: Subindustry data for industry 3355, Aluminum Rolling and Drawing, N.E.C., was collected for 1972 but is withheld to avoid disclosing figures for individual companies.

- Represents zero. (D) Withheld to avoid disclosing operations for individual companies.

¹No comparable 1967 data exists for department operations in this industry.

²This figure represents unreported man-hours and worker wages for numerous non-integrated establishments which failed to report in other departments. 1972 is the first year this data has been collected for establishments with and without melting facilities.

MAJOR GROUP 34

Fabricated Metal Products

- 34A Metal cans, cutlery, handtools, and general hardware
- 34B Heating apparatus, except electric and warm air furnaces, and plumbing fixtures
- 34C Fabricated structural metal products
- 34D Screw machine products, fasteners and washers; metal forgings and stampings; and metal services
- 34E Ordnance and accessories, n.e.c.
- 34F Miscellaneous fabricated metal products

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, handtools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified. Certain important segments of the metal fabricating industries are classified in other major groups, such as machinery in Major Groups 35 and 36; transportation equipment, including tanks, in Major Group 37; professional scientific and controlling instruments, watches, and clocks in Major Group 38; and jewelry and silverware in Major Group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in Major Group 33.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees ¹		Production workers			Value added by manufacture ²	Cost of materials ³	Value of industry shipments ³	Capital expenditures, new ⁴
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: ⁵											
1972.....	30,051	11,939	1,533.6	14,346.0	1,148.0	2,302.7	9,544.4	26,945.8	25,197.5	51,739.3	1,323.2
1967.....	27,737	11,043	1,375.1	9,670.0	1,056.9	2,160.9	6,541.6	18,042.6	16,704.9	34,577.8	1,118.4
1963.....	27,275	9,494	1,110.6	6,644.0	843.8	1,721.0	4,483.7	11,791.1	11,397.9	23,065.2	570.1
1958.....	25,029	8,580	1,090.3	5,634.2	814.5	1,608.6	3,733.9	9,439.8	(NA)	19,230.1	463.6
1954.....	(NA)	(NA)	1,040.1	4,535.4	821.2	1,652.4	3,174.2	7,653.4	(NA)	(NA)	432.5
Administrative and auxiliary units:											
1972 ⁶	526	263	40.3	525.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 ⁶	319	302	33.3	350.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 ⁶	300	284	28.5	256.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 ⁶	246	257	29.8	208.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 ⁶	(NA)	(NA)	20.7	138.1	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	29,525	11,676	1,493.3	13,820.6	1,148.0	2,302.7	9,544.4	26,945.8	25,197.5	51,739.3	1,323.2
1967.....	27,418	10,741	1,341.8	9,319.5	1,056.9	2,160.9	6,541.6	18,042.6	16,704.9	34,577.8	1,118.4
1963.....	27,075	9,210	1,082.1	6,387.5	843.8	1,721.0	4,483.7	11,791.1	11,397.9	23,065.2	570.1
1958.....	24,783	8,323	1,060.5	5,425.3	814.5	1,608.6	3,733.9	9,439.8	(NA)	19,230.1	463.6
1954.....	22,516	7,348	1,019.4	4,397.3	821.2	1,652.4	3,174.2	7,653.4	(NA)	(NA)	432.5
Operating manufacturing establishments:											
1971 ⁷	(NA)	(NA)	1,279.2	11,022.1	980.9	1,971.4	7,577.5	21,966.3	20,051.9	42,026.4	1,042.5
1970 ⁷	(NA)	(NA)	1,333.5	10,780.0	1,025.2	2,080.3	7,430.1	20,887.8	19,074.9	39,620.9	1,139.7
1969 ⁷	(NA)	(NA)	1,399.1	10,773.1	1,097.1	2,227.5	7,550.7	20,739.5	19,045.3	39,597.1	1,286.7
1968 ⁷	(NA)	(NA)	1,357.8	10,038.1	1,067.7	2,192.6	7,061.7	19,504.5	17,957.0	37,340.5	1,041.2
1966 ⁷	(NA)	(NA)	1,252.3	8,244.9	984.1	2,038.2	5,762.4	15,791.9	15,306.2	30,904.6	952.5
1965 ⁷	(NA)	(NA)	1,173.3	7,413.6	914.5	1,901.4	5,181.5	14,171.3	13,687.3	27,536.1	805.7
1964 ⁷	(NA)	(NA)	1,115.9	6,852.9	869.5	1,794.8	4,802.7	12,692.9	12,375.5	24,895.6	726.8
1962 ⁷	(NA)	(NA)	1,084.3	6,233.5	833.7	1,717.0	4,283.3	11,127.8	11,201.5	23,309.4	529.7
1961 ⁷	(NA)	(NA)	1,050.2	5,810.2	802.5	1,628.6	3,953.2	10,290.6	10,476.2	20,760.0	416.5
1960 ⁷	(NA)	(NA)	1,086.2	5,888.6	835.5	1,699.3	4,038.3	10,330.5	(NA)	(NA)	483.5
1959 ⁷	(NA)	(NA)	1,088.6	5,805.3	842.9	1,713.8	4,004.2	10,487.6	(NA)	(NA)	504.8
1957 ⁷	(NA)	(NA)	1,113.5	5,383.1	880.1	1,750.3	3,802.9	9,543.8	(NA)	(NA)	527.5
1956 ⁷	(NA)	(NA)	1,101.8	5,126.5	881.0	1,774.0	3,669.2	9,243.8	(NA)	(NA)	497.9
1955 ⁷	(NA)	(NA)	1,093.5	4,863.3	885.2	1,787.0	3,532.8	8,774.8	(NA)	(NA)	457.8
1953 ⁷	(NA)	(NA)	1,117.6	4,765.4	915.6	1,884.6	3,555.1	8,143.7	(NA)	(NA)	446.2
1952 ⁷	17,953	(NA)	1,007.6	4,124.2	820.1	1,691.8	3,036.8	7,168.3	(NA)	(NA)	327.5
1951 ⁷	17,552	(NA)	1,035.2	3,988.3	852.6	1,765.4	2,970.2	7,138.6	(NA)	(NA)	354.1
1950 ⁷	17,975	(NA)	988.8	3,404.1	806.8	1,658.3	2,523.6	6,210.8	(NA)	(NA)	317.0
1949 ⁷	(NA)	(NA)	872.2	2,883.5	710.3	1,428.5	2,088.3	4,834.2	(NA)	(NA)	230.9
1947 ⁷	16,877	(NA)	973.1	2,833.7	823.0	1,694.7	2,189.0	4,920.3	(NA)	(NA)	304.8
1939 ⁸	9,532	(NA)	(NA)	(NA)	451.0	(NA)	546.7	1,400.9	(NA)	(NA)	(NA)
1937 ⁹	8,688	(NA)	(NA)	(NA)	493.1	(NA)	604.9	1,388.8	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

¹The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

²For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

³The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

⁴The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

⁵Data for 1972 are not directly comparable to 1971 and earlier years. See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

⁶In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative office and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these years are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and prior to 1949.

⁷These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

⁸The figures for 1939 to 1971 are not entirely comparable with those for 1937 because the 1937 figures exclude data for establishments primarily engaged in producing lawn sprinklers, spun ware, nonferrous metal novelties, tackle blocks, aluminum ornamental work, aluminum stampings, and machine knives (except metalworking) and include data for establishments primarily engaged in making caulking guns, toilet seats, brooders, cast aluminum cooking ware, and hair clippers. Value added for 1939 on a basis strictly comparable with 1937 was \$1,340.4 million.

⁹The figures for 1935 and earlier years are not sufficiently comparable with those for 1937 to 1972 to be shown in this table, principally because of the inclusion in earlier years of data for establishments primarily engaged in the manufacture of valves and fittings, except plumbers', and the exclusion of data for establishments primarily engaged in the manufacture of stamped, pressed, and spun aluminum ware.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
34	FABRICATED METAL PRODUCTS.	29 525	11 676	1 493.3	13 820.6	1 148.0	2 302.7	9 544.4	26 945.8	25 197.5	51 739.3	1 323.2	(NA)	(NA)
	NORTHEAST REGION.	8 621	3 176	378.6	3 449.3	288.3	575.6	2 348.6	6 593.7	5 402.6	11 882.4	299.1	(NA)	(NA)
	NEW ENGLAND DIVISION.	2 644	961	116.9	1 024.0	87.1	175.2	664.9	2 004.7	1 364.3	3 330.7	96.2	(NA)	(NA)
	MAINE.	67	21	2.4	20.4	2.0	4.2	15.7	37.4	37.7	74.5	1.2	(NA)	(NA)
	NEW HAMPSHIRE.	96	34	3.6	30.0	2.8	5.5	19.1	48.1	46.6	93.2	5.4	(NA)	(NA)
	VERMONT.	32	6	2.4	25.4	1.0	2.2	8.7	42.4	19.1	60.9	1.0	(NA)	(NA)
	MASSACHUSETTS.	1 176	415	40.1	397.2	35.0	70.3	271.3	839.3	558.9	1 381.0	38.4	(NA)	(NA)
	RHODE ISLAND.	360	107	6.5	64.4	6.8	13.3	43.7	115.2	76.9	188.7	4.1	(NA)	(NA)
	CONNECTICUT.	948	379	53.9	486.5	39.5	79.8	306.4	922.3	625.1	1 532.3	46.2	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION.	5 977	2 217	261.6	2 425.3	201.2	400.3	1 683.6	4 589.0	4 038.4	8 551.7	202.9	(NA)	(NA)
	NEW YORK.	2 613	854	92.9	856.3	72.4	145.0	601.2	1 613.9	1 244.8	2 812.9	79.0	(NA)	(NA)
	NEW JERSEY.	1 532	546	59.4	563.2	45.2	90.9	381.4	1 138.9	938.0	2 060.4	45.7	(NA)	(NA)
	PENNSYLVANIA.	1 832	617	109.3	1 005.8	83.6	164.5	701.0	1 836.2	1 655.6	3 478.4	76.2	(NA)	(NA)
	NORTH CENTRAL REGION.	10 223	4 535	665.4	6 560.2	515.2	1 039.4	4 614.6	12 651.3	11 921.1	24 433.7	594.5	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION.	8 547	3 840	559.8	5 572.2	439.2	890.4	4 001.8	10 883.3	10 185.7	20 958.7	510.5	(NA)	(NA)
	OHIO.	2 176	1 043	156.5	1 594.6	121.3	247.0	1 134.5	3 142.5	2 981.1	6 081.5	(D)	(NA)	(NA)
	INDIANA.	825	422	66.5	592.0	51.1	100.9	418.2	1 117.2	1 253.1	2 365.9	62.2	(NA)	(NA)
	ILLINOIS.	2 547	1 118	150.0	1 447.8	117.6	239.9	1 021.9	2 852.4	2 519.0	5 340.7	130.3	(NA)	(NA)
	MICHIGAN.	2 267	965	133.2	1 432.5	108.7	224.3	1 073.6	2 766.4	2 549.2	5 314.4	(D)	(NA)	(NA)
	WISCONSIN.	730	292	52.9	505.3	40.3	78.3	353.6	984.8	883.3	1 452.1	58.3	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION.	1 676	695	105.6	988.0	75.9	149.1	612.8	1 768.1	1 735.4	3 475.1	84.0	(NA)	(NA)
	MINNESOTA.	476	210	32.8	336.4	22.4	44.2	192.2	578.5	514.8	1 063.9	23.2	(NA)	(NA)
	IDAHO.	237	101	18.4	157.6	13.4	25.6	100.0	301.7	246.4	547.6	16.2	(NA)	(NA)
	MISSOURI.	574	228	37.2	357.5	27.3	53.5	233.1	608.2	579.8	1 176.8	28.1	(NA)	(NA)
	NORTH DAKOTA.	20	3	.5	3.4	.2	.6	2.2	6.3	8.0	14.2	.1	(NA)	(NA)
	SOUTH DAKOTA.	31	8	.8	6.7	.6	1.2	3.8	13.1	17.9	30.7	.2	(NA)	(NA)
	NEBRASKA.	106	47	7.2	60.4	5.7	11.5	40.9	115.1	113.0	225.3	4.3	(NA)	(NA)
	KANSAS.	230	95	8.7	66.0	6.3	12.3	40.6	145.2	255.5	397.2	11.8	(NA)	(NA)
	SOUTH REGION.	5 722	2 344	289.5	2 306.3	224.5	450.2	1 581.8	4 745.4	5 174.7	9 812.7	271.3	(NA)	(NA)
	SOUTH ATLANTIC DIVISION.	2 446	991	105.0	836.4	81.5	162.3	571.8	1 776.0	2 162.1	3 900.9	110.6	(NA)	(NA)
	DELAWARE.	39	15	1.2	11.3	.9	1.8	7.2	23.0	18.8	41.2	.6	(NA)	(NA)
	MARYLAND.	292	120	13.9	126.7	10.6	20.5	89.0	253.9	296.4	549.4	17.3	(NA)	(NA)
	DISTRICT OF COLUMBIA.	19	4	.4	5.3	.4	.7	4.2	7.9	3.5	11.2	.3	(NA)	(NA)
	VIRGINIA.	238	112	12.7	104.8	9.7	19.7	70.7	235.6	305.1	528.7	10.3	(NA)	(NA)
	WEST VIRGINIA.	104	55	7.7	60.4	6.2	12.0	44.0	127.9	150.1	278.3	9.9	(NA)	(NA)
	NORTH CAROLINA.	366	163	17.0	130.5	13.3	26.8	87.3	292.7	344.7	632.4	19.7	(NA)	(NA)
	SOUTH CAROLINA.	168	76	8.1	63.4	6.3	13.4	43.6	114.7	176.9	287.9	7.1	(NA)	(NA)
	GEORGIA.	382	172	18.2	120.0	14.7	28.5	93.0	294.9	356.4	642.7	20.3	(NA)	(NA)
	FLORIDA.	839	268	25.7	204.7	19.4	38.9	132.8	425.4	510.1	920.1	25.3	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION.	1 142	534	79.4	611.3	62.7	125.8	431.3	1 279.7	1 186.8	2 436.1	65.1	(NA)	(NA)
	KENTUCKY.	260	130	16.0	143.4	14.4	29.1	101.6	299.2	262.2	551.9	13.3	(NA)	(NA)
	TENNESSEE.	416	179	30.6	241.7	23.5	46.9	164.7	448.0	411.7	852.2	28.5	(NA)	(NA)
	ALABAMA.	333	150	20.6	156.0	16.4	32.5	111.4	339.5	326.8	657.2	17.8	(NA)	(NA)
	MISSISSIPPI.	133	75	10.2	69.8	8.4	17.2	53.6	193.1	186.2	374.9	5.5	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION.	2 132	819	105.2	858.6	80.2	162.1	576.7	1 689.7	1 625.7	3 475.8	95.7	(NA)	(NA)
	ARKANSAS.	160	72	11.4	76.5	9.5	19.2	55.1	173.8	188.4	352.7	13.2	(NA)	(NA)
	LOUISIANA.	201	72	12.5	112.0	9.9	21.4	62.1	210.9	217.4	415.3	9.2	(NA)	(NA)
	OKLAHOMA.	326	116	14.0	113.6	10.1	19.2	66.4	224.1	207.5	425.4	11.7	(NA)	(NA)
	TEXAS.	1 443	557	67.3	556.6	50.8	102.3	373.1	1 080.9	1 212.5	2 282.5	61.6	(NA)	(NA)
	WEST REGION.	4 959	1 619	159.8	1 504.8	120.0	237.5	999.5	2 955.4	2 699.1	5 610.4	158.3	(NA)	(NA)
	MOUNTAIN DIVISION.	686	228	23.1	204.8	16.9	33.0	130.9	395.3	362.6	752.1	32.3	(NA)	(NA)
	MONTANA.	28	9	.5	3.5	.3	.6	2.3	5.2	8.2	13.9	.2	(NA)	(NA)
	IDAHO.	46	19	1.2	6.3	.9	1.7	6.2	22.7	24.9	47.1	.8	(NA)	(NA)
	COLORADO.	242	85	12.4	116.3	8.8	17.4	70.7	206.3	176.8	379.9	20.5	(NA)	(NA)
	NEW MEXICO.	47	11	.9	6.3	.7	1.4	4.1	10.9	11.8	22.2	1.0	(NA)	(NA)
	ARIZONA.	166	49	4.0	33.5	3.1	5.6	23.5	67.8	64.1	129.1	3.3	(NA)	(NA)
	UTAH.	119	44	3.5	29.8	2.6	5.1	19.9	69.3	65.6	137.7	4.0	(NA)	(NA)
	NEVADA.	27	3	.5	4.8	.4	.8	3.6	11.3	8.6	16.5	2.4	(NA)	(NA)
	PACIFIC DIVISION.	4 273	1 391	136.7	1 300.0	103.2	204.5	868.7	2 560.2	2 336.5	4 856.4	126.0	(NA)	(NA)
	WASHINGTON.	347	96	7.5	76.6	5.6	10.8	53.0	145.9	153.2	299.4	13.4	(NA)	(NA)
	OREGON.	286	102	8.3	75.9	6.3	11.9	50.0	155.0	146.8	298.4	7.0	(NA)	(NA)
	CALIFORNIA.	3 598	1 183	120.1	1 141.3	90.6	180.6	760.9	2 237.5	2 026.0	4 207.6	104.7	(NA)	(NA)
	HAWAII.	33	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
341	METAL CANS, SHIPPING CONTAINERS.	553	406	78.0	839.6	66.8	140.4	682.4	2 004.6	2 985.4	4 972.1	146.5	(NA)	(NA)
	NORTHEAST REGION.	122	90	16.9	195.6	16.1	34.1	160.1	416.0	606.9	1 016.0	23.4	(NA)	(NA)
	NEW ENGLAND DIVISION.	16	10	1.9	19.0	1.5	3.4	14.5	41.0	66.5	105.0	6.9	(NA)	(NA)
	MAINE.	3	1	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS.	9	6	.8	9.0	.7	1.5	7.0	22.6	40.3	61.7	5.4	(NA)	(NA)
	CONNECTICUT.	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION.	106	80	17.1	176.8	14.6	30.7	145.6	375.0	540.4	911.0	16.5	(NA)	(NA)
	NEW YORK.	36	20	2.8	28.7	2.4	5.1	23.7	62.6	91.0	151.3	2.3	(NA)	(NA)
	NEW JERSEY.	40	34	8.5	89.8	7.2	15.2	72.3	198.6	250.8	449.0	7.0	(NA)	(NA)
	PENNSYLVANIA.	30	26	5.8	58.3	5.1	10.5	49.0	113.8	198.6	310.7	6.4	(NA)	(NA)
	NORTH CENTRAL REGION.	167	136	27.8	302.9	23.7	50.1	244.7	707.4	1 035.3	1 733.9	62.2	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION.	126	105	21.9	234.2	18.5	39.0	187.2	529.2	770.0	1 290.4	51.6	(NA)	(NA)
	OHIO.	39	34	4.8	46.5	3.9	8.2	35.3	128.5	176.8	303.6	10.9	(NA)	(NA)
	INDIANA.	12	11	2.0	21.7	1.7	3.7	17.5	44					

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials ²	Value of shipments ²	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
341	METAL CANS, SHIPPING CONTAINERS--CONTINUED													
	NORTH CENTRAL REGION--CONTINUED													
	WEST NORTH CENTRAL DIVISION	39	31	6.0	68.7	5.2	11.0	57.4	178.2	265.3	443.5	10.6	(NA)	(NA)
	MINNESOTA	12	10	1.6	18.4	1.3	3.0	15.0	60.7	85.1	145.0	2.2	(NA)	(NA)
	MISSOURI	15	12	3.4	40.2	3.0	6.3	34.1	97.1	150.8	248.5	7.1	(NA)	(NA)
	NEBRASKA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS	7	5	PB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	153	105	17.3	179.8	14.8	30.7	146.4	477.6	725.0	1 193.6	31.5	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	73	51	10.1	104.5	8.7	17.9	87.0	240.2	414.7	649.1	20.3	(NA)	(NA)
	MARYLAND	15	15	3.8	42.6	3.3	6.7	35.1	76.5	132.4	208.0	9.4	(NA)	(NA)
	VIRGINIA	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	21	11	1.9	17.4	1.7	3.6	14.8	42.5	71.5	113.6	4.8	(NA)	(NA)
	FLORIDA	20	14	2.8	30.1	2.4	4.9	25.3	76.1	118.7	192.4	3.7	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	26	15	1.4	12.8	1.2	2.7	9.5	39.6	56.2	94.0	2.9	(NA)	(NA)
	KENTUCKY	3	3	.2	1.9	.2	.5	1.5	5.0	11.9	16.8	.1	(NA)	(NA)
	TENNESSEE	13	5	.5	4.4	.4	.9	3.4	18.3	18.0	35.3	2.3	(NA)	(NA)
	ALABAMA	6	5	.4	3.6	.4	.7	2.5	6.7	10.0	16.4	.2	(NA)	(NA)
	MISSISSIPPI	6	2	.3	2.5	.3	.6	2.2	9.5	16.3	25.5	.3	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	52	39	5.8	62.4	4.9	10.1	49.9	197.8	254.1	450.5	8.3	(NA)	(NA)
	LOUISIANA	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	36	29	4.0	43.7	3.4	7.2	35.1	137.1	194.8	332.2	6.8	(NA)	(NA)
	WEST REGION	111	77	14.5	161.2	12.2	25.6	131.4	403.6	618.1	1 028.6	29.4	(NA)	(NA)
	MOUNTAIN DIVISION	11	7	1.9	17.3	1.5	3.4	12.8	49.2	85.3	136.2	10.5	(NA)	(NA)
	COLORADO	5	4	1.8	15.8	1.4	3.1	11.5	38.6	72.5	112.0	10.4	(NA)	(NA)
	PACIFIC DIVISION	100	70	12.6	143.9	10.7	22.1	118.5	354.4	532.8	892.4	19.0	(NA)	(NA)
	WASHINGTON	12	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON	8	4	.4	4.5	.3	.7	3.3	15.9	23.7	38.7	(D)	(NA)	(NA)
	CALIFORNIA	77	54	10.9	125.6	9.2	19.0	103.8	293.2	433.0	731.2	8.5	(NA)	(NA)
	HAWAII	3	3	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
342	CUTLERY, HANDTOOLS AND HARDWARE	1 904	859	159.2	1 404.9	125.8	254.0	984.4	3 253.4	1 920.7	5 094.3	143.0	(NA)	(NA)
	NORTHEAST REGION	636	310	56.9	486.0	44.7	90.2	340.2	1 119.5	595.0	1 678.2	46.8	58.2	848.7
	NEW ENGLAND DIVISION	222	114	26.7	224.8	20.3	40.5	150.2	577.9	268.0	827.5	23.7	29.6	481.6
	NEW HAMPSHIRE	15	6	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	.7
	MASSACHUSETTS	95	48	8.9	72.0	7.0	14.0	50.8	240.0	100.3	335.2	7.3	10.8	226.3
	RHODE ISLAND	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.9
	CONNECTICUT	91	55	16.3	141.5	12.1	23.9	91.1	317.4	157.4	461.5	15.2	16.6	229.6
	MIDDLE ATLANTIC DIVISION	414	196	30.2	261.2	24.4	49.7	190.0	541.6	327.0	850.8	23.1	29.7	378.6
	NEW YORK	209	95	14.0	121.0	11.1	23.0	87.0	245.6	155.2	390.4	10.2	13.7	165.0
	NEW JERSEY	89	40	8.6	81.1	7.0	14.1	59.9	179.4	92.0	267.8	7.4	9.0	134.6
	PENNSYLVANIA	116	61	7.6	59.0	6.2	12.6	43.1	116.6	79.8	192.5	5.5	7.0	79.1
	NORTH CENTRAL REGION	691	336	68.3	650.7	54.3	110.1	459.8	1 514.9	989.6	2 478.6	58.4	69.4	1 101.0
	EAST NORTH CENTRAL DIVISION	570	279	61.3	591.8	48.5	98.5	418.6	1 399.7	901.7	2 279.6	55.0	63.5	1 032.9
	OHIO	133	72	16.1	170.5	12.4	25.0	122.0	417.5	257.5	672.2	(D)	14.5	340.0
	INDIANA	60	28	4.6	34.4	3.8	7.3	24.4	78.7	62.2	141.2	3.9	4.4	59.6
	ILLINOIS	170	89	18.4	159.5	14.5	29.3	103.3	347.1	195.6	537.0	16.5	17.4	229.7
	MICHIGAN	159	76	17.0	170.6	14.0	29.4	137.0	429.3	313.0	730.5	(D)	18.9	333.0
	WISCONSIN	48	18	5.2	47.9	3.9	7.5	31.8	127.1	73.4	198.5	5.0	4.3	70.0
	WEST NORTH CENTRAL DIVISION	121	57	7.1	58.9	5.8	11.6	41.2	115.2	87.9	196.0	3.4	5.9	68.0
	MINNESOTA	38	14	2.5	21.0	2.0	4.1	14.1	40.9	30.9	68.5	1.0	1.9	20.5
	IOA	21	11	1.1	9.3	.9	1.7	6.5	19.7	20.7	30.4	.7	.7	9.3
	MISSOURI	36	23	2.2	20.3	1.8	3.7	14.4	32.6	21.3	54.3	.6	2.3	27.2
	NEBRASKA	8	5	PB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	(D)
	KANSAS	15	6	.7	4.4	.6	1.1	3.0	12.7	10.1	22.5	.9	.5	6.0
	SOUTH REGION	221	90	15.9	117.1	12.6	25.2	76.6	254.6	163.8	410.5	15.0	14.7	178.4
	SOUTH ATLANTIC DIVISION	106	45	7.8	57.3	6.2	12.3	38.9	135.3	72.8	205.6	8.7	7.2	103.5
	MARYLAND	10	2	.2	1.4	.2	.3	.9	2.7	1.5	4.0	.1	.2	1.3
	VIRGINIA	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST VIRGINIA	6	5	1.9	14.8	1.5	2.8	10.8	36.3	22.0	57.3	.9	1.6	29.3
	NORTH CAROLINA	28	18	2.2	14.2	1.8	3.6	10.1	35.0	19.7	54.5	5.1	1.9	31.7
	SOUTH CAROLINA	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	GEORGIA	11	3	.3	1.8	.2	.5	1.3	4.9	3.5	8.3	.6	.8	(D)
	FLORIDA	40	11	1.3	10.1	1.0	2.0	5.7	21.4	11.0	32.3	.5	.9	5.9
	EAST SOUTH CENTRAL DIVISION	46	30	6.0	41.8	4.7	9.4	28.8	92.8	60.4	150.4	4.4	5.9	59.2
	KENTUCKY	15	11	1.4	10.3	1.1	2.3	7.1	20.3	21.7	39.7	1.5	CC	(D)
	TENNESSEE	14	9	3.0	22.0	2.2	4.4	14.2	48.2	21.3	68.6	2.3	3.7	34.4
	ALABAMA	9	4	.7	3.7	.6	1.3	3.1	7.6	3.3	10.8	.2	0.6	(D)
	MISSISSIPPI	6	6	.9	5.8	.7	1.4	4.3	16.7	14.2	31.3	.4	1.1	12.0
	WEST SOUTH CENTRAL DIVISION	69	15	2.1	13.1	1.7	3.5	8.9	26.5	30.5	54.5	1.9	1.7	15.7
	ARKANSAS	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	4.9
	TEXAS	51	8	.6	4.3	.5	.9	2.7	8.4	8.5	16.9	.2	.7	9.0
	WEST REGION	356	122	18.0	156.0	14.2	28.5	107.8	364.5	172.4	527.0	22.7	13.5	190.2
	MOUNTAIN DIVISION	72	13	1.3	9.4	1.1	2.1	6.5	24.2	9.2	33.2	3.2	.6	6.8
	COLORADO	15	8	1.1	8.0	.9	1.9	5.6	21.4	7.7	24.0	(D)	.5	7.9
	PACIFIC DIVISION	324	109	16.7	146.6	13.1	26.4	101.3	340.3	163.2	493.5	19.5	12.9	141.3
	WASHINGTON	24	7	RB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.4
	OREGON	33	16	2.3	20.0	1.7	3.3	12.2	43.5	23.3	64.0	2.0	.9	10.8
	CALIFORNIA	260	85	13.9	122.1	10.9	22.3	85.9	288.2	134.5	415.3	16.7	11.7	160.1

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials ²	Value of shipments ²	Capital expenditures, new	All employees	Value added by manufacture
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
									(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)
343	PLUMBING, HEATING, EXCEPT ELEC . .	757	353	60.7	523.8	45.4	91.0	345.0	1 131.6	1 040.3	2 136.6	51.7	(1.4)	(1.4)
	NORTHEAST REGION	234	95	13.1	113.3	9.3	18.5	71.2	237.2	210.4	444.5	6.5	(.4)	(.4)
	NEW ENGLAND DIVISION	55	18	2.1	17.4	1.5	3.0	10.0	38.5	38.5	75.2	1.7	(.1)	(.1)
	MASSACHUSETTS	25	8	.9	7.7	.7	1.3	5.0	16.6	15.1	31.3	1.2	(.1)	(.1)
	CONNECTICUT	20	10	1.2	9.4	.4	1.7	4.9	21.2	22.6	42.7	.7	(.1)	(.1)
	MIDDLE ATLANTIC DIVISION	179	77	11.0	95.9	7.5	15.4	61.1	198.7	171.8	369.3	5.9	(.4)	(.4)
	NEW YORK	72	25	3.7	31.5	2.6	5.2	21.2	68.1	60.3	125.0	2.2	(.4)	(.4)
	NEW JERSEY	38	16	1.7	14.2	1.1	2.2	7.9	32.4	25.2	57.6	1.2	(.1)	(.1)
	PENNSYLVANIA	69	36	5.6	50.3	4.1	8.0	32.0	97.9	86.4	166.7	3.1	(.4)	(.4)
	NORTH CENTRAL REGION	252	134	26.3	265.7	21.0	42.6	175.9	548.4	522.7	1 059.4	26.5	(.4)	(.4)
	EAST NORTH CENTRAL DIVISION	200	113	25.8	243.1	19.2	39.1	161.9	505.2	475.0	976.7	24.2	(.4)	(.4)
	OHIO	53	27	5.4	54.1	3.5	7.4	30.9	104.8	104.3	210.5	(1)	(.4)	(.4)
	INDIANA	20	15	7.7	70.5	6.0	12.6	48.7	151.1	174.1	319.4	10.7	(.4)	(.4)
	ILLINOIS	66	38	5.9	50.3	4.3	8.2	31.7	112.6	97.4	204.4	4.4	(.4)	(.4)
	MICHIGAN	40	21	2.5	25.5	1.9	3.0	16.0	51.2	46.6	98.7	(1)	(.4)	(.4)
	WISCONSIN	21	12	4.2	42.7	3.5	7.3	34.6	65.6	52.0	137.4	2.6	(.4)	(.4)
	WEST NORTH CENTRAL DIVISION	52	21	2.5	22.6	1.8	3.5	14.0	43.2	47.6	89.0	2.3	(.4)	(.4)
	MINNESOTA	10	6	.6	6.1	.5	.9	4.0	12.8	13.6	26.6	.5	(.4)	(.4)
	IOA	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	MISSOURI	19	5	.6	4.9	.4	.6	2.8	10.1	9.1	18.1	.4	(.4)	(.4)
	NEBRASKA	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	KANSAS	10	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	SOUTH REGION	151	73	13.3	96.4	10.3	20.6	66.8	231.0	194.7	414.9	12.3	(.4)	(.4)
	SOUTH ATLANTIC DIVISION	67	30	5.5	38.8	4.2	8.0	26.1	92.8	80.4	170.7	6.3	(.4)	(.4)
	DELAWARE	3	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	MARYLAND	8	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	VIRGINIA	5	4	.5	4.3	.3	.5	1.8	10.8	9.6	20.4	.4	(.4)	(.4)
	WEST VIRGINIA	5	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	NORTH CAROLINA	12	5	.5	6.3	.7	1.6	4.1	15.1	16.2	29.9	1.1	(.4)	(.4)
	SOUTH CAROLINA	7	7	.5	3.2	.4	.9	2.3	6.1	6.9	14.6	.6	(.4)	(.4)
	GEORGIA	11	6	.9	6.2	.7	1.3	3.5	14.9	14.1	26.4	1.0	(.4)	(.4)
	FLORIDA	16	5	.2	1.7	.2	.3	1.1	4.7	4.2	8.7	.6	(.4)	(.4)
	EAST SOUTH CENTRAL DIVISION	33	21	5.7	42.8	4.6	9.4	30.6	105.8	74.0	173.5	2.6	(.4)	(.4)
	KENTUCKY	10	7	2.2	18.9	1.7	3.6	13.5	48.3	31.7	79.1	.5	(.4)	(.4)
	TENNESSEE	10	6	1.8	13.2	1.5	3.0	10.0	21.4	24.7	43.4	1.7	(.4)	(.4)
	ALABAMA	12	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	WEST SOUTH CENTRAL DIVISION	51	15	2.1	14.7	1.6	3.3	10.1	32.4	40.3	70.7	3.5	(.4)	(.4)
	TEXAS	37	14	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	WEST REGION	120	51	6.0	48.5	4.7	9.3	31.1	115.1	112.6	217.7	4.4	(.4)	(.4)
	PACIFIC DIVISION	108	48	5.9	47.4	4.6	9.0	30.6	112.0	110.6	212.7	(0)	(.4)	(.4)
	WASHINGTON	6	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
	CALIFORNIA	91	44	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(.4)	(.4)
344	FABRICATED STRUC. METAL PRODUCTS . .	10 351	4 026	394.8	3 531.8	290.8	570.9	2 292.1	6 742.9	7 544.5	14 179.6	317.5	(1.4)	(1.4)
	NORTHEAST REGION	2 715	953	90.4	847.8	64.9	125.1	539.1	1 519.0	1 566.3	3 079.7	62.1	97.6	1 222.9
	NEW ENGLAND DIVISION	643	207	16.8	160.2	11.7	23.2	96.7	276.3	313.4	587.6	14.4	15.7	180.5
	MAINE	24	10	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.2	13.5
	NEW HAMPSHIRE	41	14	1.5	13.5	1.1	2.1	9.0	19.8	25.2	44.0	1.7	.9	4.7
	VERMONT	11	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.6
	MASSACHUSETTS	350	111	8.0	75.7	6.0	12.0	50.1	137.1	124.4	258.8	6.9	4.1	100.4
	RHODE ISLAND	54	18	1.2	11.3	.9	1.9	7.5	24.3	19.0	41.6	.6	.6	10.0
	CONNECTICUT	163	51	5.1	50.8	2.9	5.7	24.3	78.2	123.2	204.8	4.6	4.3	52.4
	MIDDLE ATLANTIC DIVISION	2 072	746	73.6	687.5	53.2	101.9	442.4	1 242.8	1 252.9	2 492.1	47.7	61.9	1 034.4
	NEW YORK	826	273	26.0	244.9	18.9	37.0	155.6	445.6	379.3	813.1	14.7	26.5	322.5
	NEW JERSEY	525	168	13.0	126.5	9.5	18.5	81.5	237.6	231.5	466.5	7.8	13.0	177.6
	PENNSYLVANIA	721	305	34.6	316.2	24.9	46.5	201.3	559.6	642.2	1 212.5	25.2	42.4	533.9
	NORTH CENTRAL REGION	2 619	1 187	123.4	1 150.8	91.0	179.1	750.8	2 225.2	2 453.3	4 635.8	105.8	125.9	1 716.0
	EAST NORTH CENTRAL DIVISION	2 123	692	93.1	881.3	68.6	135.0	577.4	1 703.7	1 682.2	3 655.6	75.2	94.4	1 354.4
	OHIO	541	274	32.2	303.7	23.8	47.0	201.7	576.6	695.9	1 252.3	(1)	31.8	474.0
	INDIANA	251	124	13.8	125.8	10.2	19.7	83.3	227.1	297.2	531.3	13.3	13.8	160.9
	ILLINOIS	566	233	21.3	198.5	15.9	31.0	130.5	430.7	429.1	852.5	19.1	21.2	305.4
	MICHIGAN	495	170	15.6	154.8	11.6	22.9	100.6	265.4	290.2	570.4	(0)	18.7	276.8
	WISCONSIN	230	91	10.2	99.6	7.2	14.4	61.1	183.9	169.9	348.9	9.4	13.0	151.0
	WEST NORTH CENTRAL DIVISION	696	295	30.3	269.5	22.3	44.1	173.4	521.5	571.1	1 080.1	30.6	27.5	333.5
	MINNESOTA	168	68	6.1	59.9	4.4	8.2	37.3	111.7	114.7	223.4	4.7	5.2	71.3
	IOA	103	46	5.6	46.0	4.5	9.4	32.9	92.4	97.1	190.4	4.4	4.7	44.6
	MISSOURI	219	85	10.1	96.5	7.4	14.8	63.8	178.9	166.0	358.0	10.2	10.5	133.6
	NORTH DAKOTA	14	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.5
	SOUTH DAKOTA	22	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	(1)
	NEBRASKA	53	24	2.7	23.3	1.9	3.7	12.7	51.3	66.0	116.3	2.4	3.0	35.0
	KANSAS	117	60	4.5	34.2	3.4	6.6	21.9	71.3	83.9	153.2	6.5	3.3	41.7
	SOUTH REGION	2 989	1 258	131.6	1 062.4	98.8	198.4	697.1	2 117.6	2 575.7	4 652.3	111.2	113.6	1 369.7
	SOUTH ATLANTIC DIVISION	1 329	572	53.2	427.9	39.3	79.0	272.6	873.3	1 138.2	1 991.2	47.2	44.6	465.0
	DELAWARE	22	9	.5	4.9	.4	.7	2.9	10.6	11.1	21.7	.1	.5	4.9
	MARYLAND	149	63	5.6	49.1	3.7	7.0	28.5	106.4	99.4	194.1	3.6	5.7	74.7
	DISTRICT OF COLUMBIA	12	4	.4	5.0	.3	.5	3.9	7.4	3.2	17.4	.3	.7	3.1
	VIRGINIA	144	71	7.5	63.8	5.6	11.7	41.5	137.7	178.5	305.7	6.7	7.6	72.2
	WEST VIRGINIA	46	27	2.2	20.4	1.7	3.4	14.4	58.2	75.9	112.5	5.2	1.6	17.1
	NORTH CAROLINA	178	75	7.6	59.8	5.7	11.6	36.7	124.9	174.4	316.2	5.4	9.4	77.4
	SOUTH CAROLINA	101	43	4.2	33.6	3.1	6.6	22.2	50.4	101.6	151.7	2.6	3.4	35.1
	GEORGIA	224	105	9.4	67.9	7.3	14.2	46.3	154.7	176.9	329.5	8.6	8.2	44.5
	FLORIDA	453	173	15.8	133.3	11.5	23.0	74.3	249.0	297.0	545.4	14.5	12.4	122.5

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital ex- pendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
344	FABRICATED STRUC. METAL PRODUCTS-- CONTINUED													
	SOUTH REGION--CONTINUED													
	EAST SOUTH CENTRAL DIVISION. . . .	581	240	28.8	235.5	21.9	43.3	159.0	458.6	535.0	1 019.2	21.5	25.5	324.1
	KENTUCKY.	136	39	3.4	28.6	2.6	5.4	18.6	53.4	58.6	110.5	1.3	3.0	33.5
	TENNESSEE.	214	86	12.6	112.1	9.4	18.4	73.2	200.5	219.0	419.6	10.4	11.2	112.0
	ALABAMA.	183	77	8.1	63.4	6.1	11.7	42.3	134.1	171.5	305.8	7.0	7.7	122.4
	MISSISSIPPI.	76	38	4.5	31.3	3.8	7.9	24.9	100.8	85.9	183.3	2.1	3.5	56.1
	WEST SOUTH CENTRAL DIVISION. . . .	1 079	446	49.7	398.9	37.6	76.1	265.4	755.5	905.6	1 642.4	42.2	43.5	446.0
	ARKANSAS.	92	36	4.1	26.5	3.3	6.5	19.4	56.5	70.3	125.4	4.7	2.5	19.2
	LOUISIANA.	126	49	6.5	58.9	5.1	10.8	42.8	111.5	123.2	218.8	5.5	5.5	76.0
	OKLAHOMA.	158	74	9.9	81.5	7.1	13.4	48.6	155.7	156.2	308.5	7.3	4.5	123.3
	TEXAS.	701	287	29.2	232.0	22.1	45.3	155.5	431.8	555.9	989.4	24.6	25.0	257.7
	WEST REGION.	1 828	628	49.4	470.8	36.1	68.4	305.2	881.1	946.2	1 811.3	38.4	50.7	683.7
	MOUNTAIN DIVISION.	365	138	10.1	83.4	7.6	14.2	56.1	171.7	189.4	354.0	12.4	4.2	111.0
	MONTANA.	10	5	.3	2.4	.2	.4	1.5	3.9	6.5	10.3	(0)	.2	2.6
	IDAHO.	24	12	.5	4.6	.4	.8	3.3	8.4	11.0	19.5	.3	.5	6.0
	COLORADO.	108	37	2.9	24.0	2.2	4.1	15.5	41.8	54.6	95.0	4.0	2.3	27.6
	NEW MEXICO.	32	11	.9	6.2	.6	1.3	3.7	9.8	11.2	20.5	.9	.4	4.5
	ARIZONA.	96	31	2.7	22.1	2.0	3.6	16.1	44.7	47.6	90.8	2.6	2.6	31.1
	UTAH.	71	33	2.5	21.3	1.4	3.6	14.2	57.1	51.5	106.1	3.5	1.6	35.3
	NEVADA.	11	5	.2	1.9	.2	.3	1.4	4.5	4.0	8.0	.3	.4	(0)
	PACIFIC DIVISION.	1 463	490	39.3	387.5	28.5	54.2	249.1	709.3	756.7	1 457.3	26.0	42.5	572.7
	WASHINGTON.	177	56	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	5.1	66.0
	OREGON.	125	41	3.2	30.8	2.4	4.4	20.4	58.0	56.4	124.8	2.7	3.3	40.4
	CALIFORNIA.	1 130	388	31.7	309.3	22.9	43.7	197.6	570.5	610.5	1 171.7	20.5	33.9	460.3
	HAWAII.	16	5	.4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	(0)
345	SCREW MACHINE PROD., POLTS., ETC..	2 482	1 008	100.6	949.0	79.2	164.8	663.6	1 845.3	1 276.3	3 091.5	86.9	(NA)	(NA)
	NORTHEAST REGION.	831	296	30.6	272.3	23.4	47.6	185.8	519.8	319.9	533.9	20.9	38.5	505.4
	NEW ENGLAND DIVISION.	393	134	13.1	109.9	10.0	20.7	73.4	213.0	121.3	329.5	8.1	15.3	212.6
	NEW HAMPSHIRE.	10	3	.8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.8	(0)
	MASSACHUSETTS.	112	43	4.6	38.0	3.5	7.3	25.5	69.0	37.9	105.7	2.4	6.8	60.6
	RHODE ISLAND.	54	16	1.3	10.7	1.1	2.2	7.6	18.9	13.7	32.2	.7	1.5	15.5
	CONNECTICUT.	216	71	6.8	58.2	5.1	10.7	38.2	119.3	66.7	182.4	4.6	6.2	111.5
	MIDDLE ATLANTIC DIVISION.	436	162	17.5	162.3	13.4	26.9	112.4	306.8	198.1	504.4	12.9	21.6	292.9
	NEW YORK.	179	59	5.5	48.9	4.2	8.1	31.9	98.2	59.7	158.6	4.7	7.0	95.8
	NEW JERSEY.	133	45	4.6	45.8	3.4	6.9	31.1	87.2	46.8	132.0	3.4	5.6	85.6
	PENNSYLVANIA.	126	57	7.4	67.7	5.3	11.9	49.3	121.4	91.6	217.6	4.7	9.0	111.5
	NORTH CENTRAL REGION.	1 204	549	52.6	521.4	42.1	89.2	376.6	1 017.6	766.4	1 783.4	57.3	58.8	840.0
	EAST NORTH CENTRAL DIVISION. . . .	1 102	504	49.7	495.0	39.9	84.5	358.4	971.1	736.5	1 690.1	55.4	55.4	750.7
	OHIO.	244	129	14.0	135.7	11.2	23.2	97.3	268.7	213.4	479.2	12.6	17.2	232.0
	INDIANA.	80	40	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.0	52.3
	ILLINOIS.	361	151	19.1	190.4	15.4	33.2	141.8	358.0	249.5	595.9	19.1	20.0	240.6
	MICHIGAN.	337	157	11.5	122.1	9.2	19.6	86.1	250.2	215.5	461.0	(0)	12.0	191.5
	WISCONSIN.	75	27	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.2	30.3
	WEST NORTH CENTRAL DIVISION. . . .	102	45	2.9	26.4	2.3	4.7	18.2	46.5	27.9	73.3	1.9	3.4	44.1
	MINNESOTA.	37	21	1.3	12.6	1.1	2.3	9.2	21.7	11.6	32.6	1.1	1.5	20.3
	IOWA.	10	5	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	2.5
	MISSOURI.	42	15	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.5	14.6
	SOUTH REGION.	153	65	7.3	58.5	6.1	12.7	41.5	120.3	96.3	212.5	5.4	6.2	73.2
	SOUTH ATLANTIC DIVISION.	63	21	2.9	22.2	2.5	5.2	15.9	45.0	38.0	82.4	3.1	2.7	36.5
	MARYLAND.	9	3	.2	1.8	.2	.4	1.4	3.1	2.0	5.1	.1	.4	3.6
	VIRGINIA.	3	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	(0)
	NORTH CAROLINA.	9	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	FLORIDA.	29	9	.9	6.8	.8	1.8	5.0	6.3	12.9	19.9	1.2	.6	6.5
	EAST SOUTH CENTRAL DIVISION. . . .	41	20	3.0	24.2	2.5	5.4	18.9	54.8	40.8	92.7	1.7	2.2	22.4
	KENTUCKY.	11	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	4.1
	TENNESSEE.	16	10	.8	5.7	.6	1.5	4.5	12.4	8.2	20.0	.4	.3	3.7
	ALABAMA.	12	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.2	12.5
	MISSISSIPPI.	2	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	2.0
	WEST SOUTH CENTRAL DIVISION. . . .	49	18	1.3	9.2	1.1	2.1	6.7	20.5	17.5	37.3	.6	1.3	14.3
	OKLAHOMA.	8	3	.2	1.2	.2	.3	1.0	2.7	2.3	5.0	(0)	.8	(0)
	TEXAS.	32	12	1.0	7.0	.9	1.6	5.1	15.3	13.3	28.6	.6	1.0	11.6
	WEST REGION.	294	96	10.1	98.7	7.5	15.3	61.7	187.6	93.7	281.7	5.3	12.7	271.4
	MOUNTAIN DIVISION.	27	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.4
	COLORADO.	10	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ARIZONA.	5	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION.	267	89	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	12.4	199.0
	WASHINGTON.	9	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OREGON.	5	4	.2	1.6	.1	.2	1.1	2.6	1.0	3.6	(0)	.2	2.0
	CALIFORNIA.	253	63	9.2	91.0	6.8	14.0	56.6	173.6	86.0	260.5	4.5	12.1	195.7
346	METAL FORGINGS AND STAMPINGS. . . .	3 188	1 607	263.5	2 791.4	216.1	441.6	2 129.4	5 057.3	4 934.0	9 456.9	237.7	(NA)	(NA)
	NORTHEAST REGION.	923	413	53.9	544.6	43.3	88.2	400.7	958.5	795.2	1 739.6	51.8	(NA)	(NA)
	NEW ENGLAND DIVISION.	321	156	15.5	140.2	12.3	25.0	96.6	240.8	192.5	429.2	12.2	(NA)	(NA)
	MAINE.	5	3	HB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW HAMPSHIRE.	8	4	.2	1.9	.2	.3	1.2	4.2	1.2	5.4	.4	(NA)	(NA)
	MASSACHUSETTS.	135	67	8.6	79.9	6.8	13.6	56.0	136.7	108.2	240.8	7.1	(NA)	(NA)
	RHODE ISLAND.	40	16	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CONNECTICUT.	129	63	5.0	45.6	4.1	8.4	30.9	79.4	65.1	144.5	3.6	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials ²	Value of shipments ²	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
346	METAL FORGINGS AND STAMPINGS--CONTINUED													
	NORTHEAST REGION--CONTINUED													
	MIDDLE ATLANTIC DIVISION	602	257	36.4	404.5	31.0	63.2	304.1	717.7	602.7	1 310.4	39.6	(NA)	(NA)
	NEW YORK	295	110	15.3	166.4	12.7	26.0	127.0	294.1	230.3	520.7	24.6	(NA)	(NA)
	NEW JERSEY	163	74	6.7	60.1	5.3	10.7	42.2	107.7	99.6	205.1	4.5	(NA)	(NA)
	PENNSYLVANIA	144	73	16.4	178.0	13.0	26.5	134.9	315.9	272.9	564.6	10.5	(NA)	(NA)
	NORTH CENTRAL REGION	1 567	899	180.4	2 011.3	148.8	304.4	1 554.6	3 626.4	3 668.2	7 285.4	159.1	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION	1 412	822	173.8	1 958.9	143.5	294.1	1 515.4	3 520.4	3 548.5	7 102.2	152.3	(NA)	(NA)
	OHIO	357	225	50.0	575.5	41.6	86.1	448.3	1 014.6	1 074.1	2 079.5	(D)	(NA)	(NA)
	INDIANA	116	74	16.1	172.8	13.2	26.9	132.0	305.7	341.5	651.4	13.9	(NA)	(NA)
	ILLINOIS	393	200	30.4	324.9	24.9	50.8	252.1	617.1	604.9	1 222.8	28.1	(NA)	(NA)
	MICHIGAN	431	258	61.5	729.0	51.7	108.2	576.8	1 325.9	1 332.6	2 561.1	(D)	(NA)	(NA)
	WISCONSIN	113	65	15.8	148.7	12.2	22.1	105.5	257.1	235.5	488.4	8.9	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION	155	77	6.6	55.4	5.3	10.3	39.3	106.0	79.7	183.2	6.7	(NA)	(NA)
	MINNESOTA	62	38	3.2	27.8	2.5	4.9	18.6	52.2	36.0	86.8	2.9	(NA)	(NA)
	IOWA	19	8	1.0	6.4	.8	1.6	5.1	16.7	9.5	26.2	.6	(NA)	(NA)
	MISSOURI	54	26	2.2	19.5	1.7	3.4	14.1	34.3	31.5	64.7	3.1	(NA)	(NA)
	SOUTH REGION	305	150	18.7	135.9	15.8	32.3	103.4	282.1	306.8	582.5	15.8	(NA)	(NA)
	SOUTH ATLANTIC DIVISION	114	55	6.4	44.4	5.6	11.2	34.9	94.4	115.7	205.2	4.0	(NA)	(NA)
	MARYLAND	13	5	.4	2.8	.3	.6	1.9	6.4	4.2	10.7	.3	(NA)	(NA)
	VIRGINIA	7	3	.3	2.2	.2	.5	1.7	3.5	2.8	6.3	.2	(NA)	(NA)
	WEST VIRGINIA	8	3	.9	5.7	.7	1.4	4.4	11.1	8.1	18.0	(D)	(NA)	(NA)
	NORTH CAROLINA	21	10	FE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH CAROLINA	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	21	13	2.6	16.3	2.4	4.7	13.8	31.8	39.8	70.6	1.1	(NA)	(NA)
	FLORIDA	35	11	.9	6.7	.8	1.6	5.0	19.0	24.2	41.4	1.0	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION	95	54	8.4	60.6	6.9	14.4	45.2	119.7	129.8	247.0	8.5	(NA)	(NA)
	KENTUCKY	33	22	2.4	19.0	2.0	4.1	14.2	31.5	28.4	58.9	2.7	(NA)	(NA)
	TENNESSEE	31	10	2.0	13.7	1.8	3.8	10.5	26.2	29.5	55.0	4.1	(NA)	(NA)
	ALABAMA	17	10	1.4	10.7	1.1	2.4	7.8	21.4	28.2	50.2	.0	(NA)	(NA)
	MISSISSIPPI	14	12	2.6	17.3	2.0	4.1	12.5	40.6	43.7	83.8	.9	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION	96	41	3.9	30.9	3.3	6.6	23.4	68.1	61.3	129.4	3.3	(NA)	(NA)
	ARKANSAS	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA	14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	68	31	2.5	21.4	2.1	4.4	16.2	43.6	42.0	86.0	2.0	(NA)	(NA)
	WEST REGION	393	145	10.4	99.4	8.2	16.7	70.7	190.3	163.9	349.4	11.0	(NA)	(NA)
	MOUNTAIN DIVISION	29	4	.4	4.4	.4	.6	3.4	9.4	7.1	15.3	(D)	(NA)	(NA)
	COLORADO	10	3	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	364	141	10.0	95.0	7.9	16.0	67.3	180.9	156.7	334.2	(D)	(NA)	(NA)
	WASHINGTON	20	2	.2	1.7	.2	.3	1.3	3.1	2.6	5.6	(D)	(NA)	(NA)
	OREGON	14	7	.3	3.0	.3	.5	2.2	5.2	4.2	9.2	.3	(NA)	(NA)
	CALIFORNIA	330	132	9.4	90.3	7.4	15.2	63.8	172.6	149.9	319.3	8.5	(NA)	(NA)
347	METAL SERVICES, NEC.	4 761	1 197	82.1	624.7	67.7	132.7	445.3	1 120.3	623.5	1 735.3	64.2	(NA)	(NA)
	NORTHEAST REGION	1 467	341	22.2	163.9	18.3	35.5	116.2	290.5	164.8	453.1	15.3	23.7	242.4
	NEW ENGLAND DIVISION	510	124	7.9	55.8	6.6	12.4	39.6	98.0	42.7	140.3	5.0	8.2	83.2
	MASSACHUSETTS	207	51	2.9	20.8	2.4	4.5	14.6	35.9	15.1	50.8	1.6	3.2	31.4
	RHODE ISLAND	152	36	2.4	14.1	2.1	3.6	10.8	23.6	11.6	35.1	1.3	1.9	14.8
	CONNECTICUT	137	36	2.5	20.1	2.0	4.0	13.7	37.4	15.6	52.7	2.0	3.0	35.9
	MIDDLE ATLANTIC DIVISION	957	217	14.3	108.1	11.6	23.1	76.6	192.5	122.1	312.7	10.2	15.5	159.2
	NEW YORK	494	107	7.2	51.4	6.1	12.1	37.1	66.0	37.6	123.3	3.4	8.4	60.9
	NEW JERSEY	245	46	3.1	24.3	2.6	5.1	17.3	46.8	26.8	73.3	2.7	3.3	30.2
	PENNSYLVANIA	216	62	3.9	32.4	3.1	5.9	22.2	59.7	57.7	116.1	4.1	3.8	42.1
	NORTH CENTRAL REGION	1 722	491	34.3	268.2	28.3	55.8	190.3	448.5	267.3	763.1	28.7	34.6	370.0
	EAST NORTH CENTRAL DIVISION	1 509	441	30.4	237.3	25.0	49.4	167.8	442.7	241.5	682.0	26.0	31.3	334.0
	OHIO	389	104	7.1	54.1	5.3	11.5	38.1	105.5	50.1	155.0	5.8	7.4	42.0
	INDIANA	116	45	3.1	24.6	2.7	5.3	19.0	49.4	29.7	78.9	4.3	FE	(D)
	ILLINOIS	445	142	9.5	80.3	7.6	15.4	54.9	141.7	93.6	234.3	8.4	10.4	110.1
	MICHIGAN	455	126	8.7	65.1	7.2	14.3	46.4	122.8	57.5	180.2	(D)	FE	(D)
	WISCONSIN	102	24	2.0	13.2	1.7	2.9	9.4	23.3	10.3	33.6	1.6	1.8	14.1
	WEST NORTH CENTRAL DIVISION	213	50	3.9	31.0	3.3	6.3	22.5	55.8	25.8	81.1	1.9	3.3	41.3
	MINNESOTA	63	20	1.4	12.0	1.1	2.1	8.6	19.8	7.3	27.1	.7	1.2	14.9
	IOWA	26	3	.2	1.7	.2	.4	1.4	3.0	.9	3.8	.1	.2	1.0
	MISSOURI	94	22	2.1	15.4	1.7	3.4	11.1	29.3	16.4	45.2	.9	FE	(D)
	KANSAS	23	3	.2	1.4	.1	.3	.9	2.6	.9	3.5	.1	AA	(D)
	SOUTH REGION	675	163	12.0	85.5	9.9	19.2	61.9	163.4	87.3	244.5	10.0	9.9	100.5
	SOUTH ATLANTIC DIVISION	277	60	4.3	30.3	3.5	6.5	21.5	58.0	42.4	96.9	3.9	4.0	39.4
	MARYLAND	41	9	.7	5.5	.5	1.0	4.0	9.6	6.7	16.2	1.1	.5	5.0
	VIRGINIA	16	5	.2	1.7	.2	.3	1.1	2.7	.9	3.6	.1	.2	2.2
	WEST VIRGINIA	13	2	.2	1.3	.2	.3	1.0	2.2	1.2	3.4	.1	(NA)	(NA)
	NORTH CAROLINA	47	14	1.0	6.5	.8	1.7	4.6	12.3	6.3	18.6	.7	.7	5.4
	SOUTH CAROLINA	21	5	.3	1.6	.2	.4	1.2	3.4	1.3	4.6	.2	.2	1.9
	GEORGIA	37	12	.8	5.9	.7	1.2	4.3	13.2	20.3	32.3	1.1	.7	6.3
	FLORIDA	93	11	1.0	7.0	.8	1.5	5.0	13.4	4.8	18.2	.6	1.4	15.5
	EAST SOUTH CENTRAL DIVISION	122	37	2.3	14.4	2.0	3.9	10.8	27.8	12.4	40.2	2.1	2.1	16.2
	KENTUCKY	30	11	.7	4.2	.6	1.1	3.1	7.5	3.8	11.3	.7	.6	5.5
	TENNESSEE	48	12	.9	5.3	.8	1.6	4.0	9.3	3.1	12.4	.3	.9	6.3
	ALABAMA	35	11	.6	4.2	.5	1.0	3.2	9.8	4.9	14.7	.7	.5	3.8
	WEST SOUTH CENTRAL DIVISION	276	66	5.4	40.7	4.4	8.6	29.6	77.6	32.5	100.4	4.0	3.9	44.9
	LOUISIANA	22	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	OKLAHOMA	47	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	TEXAS	196	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
347	METAL SERVICES, NEC--CONTINUED													
	WEST REGION.	897	202	13.6	106.5	11.2	22.2	76.9	167.9	104.0	271.6	10.1	13.1	145.3
	MOUNTAIN DIVISION.	74	13	.8	5.7	.7	1.3	4.2	10.4	3.3	13.7	.6	.6	6.1
	COLORADO	26	5	.3	2.2	.3	.5	1.6	3.9	1.0	4.9	.2	.3	3.0
	ARIZONA	22	5	.3	2.1	.2	.5	1.5	3.5	1.3	4.8	.2	.4	3.2
	PACIFIC DIVISION	823	189	12.8	100.8	10.6	20.9	72.7	157.5	100.8	257.9	9.6	12.2	137.3
	WASHINGTON	44	6	.5	4.5	.4	.7	3.2	8.2	2.4	10.6	.4	.4	4.9
	OREGON	31	10	.5	3.7	.4	.9	2.8	5.7	2.1	7.8	.3	.4	3.5
	CALIFORNIA	742	173	11.8	92.4	9.7	19.3	66.6	143.2	96.1	236.8	8.9	11.4	126.6
348	ORDNANCE AND ACCESSORIES, NEC.	315	179	109.5	1 015.3	73.2	144.8	591.0	1 507.3	1 300.1	2 787.0	61.6	(NA)	(NA)
	NORTHEAST REGION	86	62	25.4	236.6	19.2	39.1	161.8	362.5	290.4	660.2	13.6	(NA)	(NA)
	NEW ENGLAND DIVISION	36	27	14.5	139.6	10.0	20.2	87.7	224.4	103.0	328.2	7.3	(NA)	(NA)
	MAINE	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VERMONT	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	14	9	3.9	36.8	2.9	6.0	24.3	52.6	23.1	73.4	.5	(NA)	(NA)
	CONNECTICUT	17	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	46	35	10.9	97.0	9.2	18.9	74.2	158.1	187.4	332.1	6.4	(NA)	(NA)
	NEW YORK	15	10	4.3	43.5	3.6	7.4	32.4	82.2	66.2	140.3	4.6	(NA)	(NA)
	NEW JERSEY	7	6	.8	5.6	.7	1.3	4.0	8.5	6.0	14.0	.3	(NA)	(NA)
	PENNSYLVANIA	26	19	5.6	47.8	4.9	10.2	37.8	67.4	115.2	177.8	1.6	(NA)	(NA)
	NORTH CENTRAL REGION	76	47	48.0	457.3	29.7	56.1	245.4	674.9	640.2	1 311.1	21.6	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION.	54	29	17.8	145.7	11.3	20.9	87.2	237.7	237.9	477.3	7.3	(NA)	(NA)
	OHIO	13	7	2.1	25.7	.8	1.5	7.8	29.5	12.9	41.8	4.1	(NA)	(NA)
	INDIANA	10	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS	12	7	5.2	41.8	3.5	7.0	27.8	75.5	53.2	132.3	2.2	(NA)	(NA)
	MICHIGAN	12	2	.2	1.5	.2	.4	1.3	3.4	1.4	4.6	(D)	(NA)	(NA)
	WISCONSIN	7	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION.	24	13	30.2	311.6	18.4	35.2	158.1	437.2	402.2	833.8	14.3	(NA)	(NA)
	MINNESOTA	5	3	12.5	144.8	6.8	13.7	62.8	211.8	148.6	361.6	6.5	(NA)	(NA)
	IOWA	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA	6	4	1.7	13.7	1.5	3.1	11.0	17.9	12.4	29.2	(D)	(NA)	(NA)
	KANSAS	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION	66	40	20.7	160.5	14.9	30.0	97.8	224.8	225.4	445.1	15.8	(NA)	(NA)
	SOUTH ATLANTIC DIVISION.	21	15	2.4	15.8	1.8	3.2	9.7	30.0	29.0	55.0	2.0	(NA)	(NA)
	MARYLAND	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA	3	3	1.2	7.2	1.0	1.5	4.8	15.9	11.3	24.4	1.7	(NA)	(NA)
	FLORIDA	2	5	.6	4.8	.4	.9	2.5	8.6	9.0	16.5	.1	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION.	14	10	4.6	35.5	3.3	6.7	22.4	44.6	38.8	83.5	1.2	(NA)	(NA)
	TENNESSEE	7	5	3.6	29.7	2.4	4.8	17.6	33.8	21.8	55.2	1.0	(NA)	(NA)
	ALABAMA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION.	33	15	13.6	109.1	9.6	20.1	65.7	150.2	157.6	306.7	12.6	(NA)	(NA)
	ARKANSAS	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	LOUISIANA	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS	24	11	9.7	79.0	6.5	12.6	44.8	107.2	99.2	204.7	9.9	(NA)	(NA)
	WEST REGION.	93	30	15.4	160.8	9.5	19.6	86.0	225.2	144.1	370.5	10.3	(NA)	(NA)
	MOUNTAIN DIVISION.	21	6	5.0	53.5	3.0	5.7	27.3	63.9	16.4	84.2	.7	(NA)	(NA)
	IDAHO	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO	8	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION	62	24	10.3	107.3	6.5	13.9	58.7	161.2	127.7	286.4	9.6	(NA)	(NA)
	OREGON	5	2	.2	1.2	.1	.2	.7	1.8	2.6	4.8	.1	(NA)	(NA)
	CALIFORNIA	56	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	MISC. FABRICATED METAL PRODUCTS.	5 214	2 040	244.3	2 141.7	183.0	362.5	1 409.2	4 283.0	3 572.7	7 784.8	212.2	(NA)	(NA)
	NORTHEAST REGION	1 607	618	67.1	589.0	49.0	97.3	373.5	1 150.5	853.6	1 977.4	56.4	(NA)	(NA)
	NEW ENGLAND DIVISION	446	171	18.5	157.1	13.2	26.8	96.2	294.8	217.8	508.4	16.6	(NA)	(NA)
	MAINE	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS	189	72	7.4	63.4	5.1	10.1	38.0	128.7	94.5	223.4	6.4	(NA)	(NA)
	RHODE ISLAND	51	16	1.4	11.5	.9	1.7	6.4	19.6	12.4	30.6	.7	(NA)	(NA)
	CONNECTICUT	171	75	6.7	75.8	6.5	13.5	48.1	138.7	97.9	233.4	6.6	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION	1 161	447	48.6	431.9	35.8	70.5	277.3	855.7	635.8	1 469.0	39.6	(NA)	(NA)
	NEW YORK	487	155	14.1	120.2	10.6	21.1	81.3	231.5	165.2	390.1	12.4	(NA)	(NA)
	NEW JERSEY	292	114	12.3	115.6	8.4	16.9	65.2	240.5	159.4	395.1	10.1	(NA)	(NA)
	PENNSYLVANIA	382	178	22.1	196.1	16.5	32.5	130.8	383.8	311.2	683.9	17.1	(NA)	(NA)
	NORTH CENTRAL REGION	1 723	756	102.1	931.7	76.3	152.1	616.5	1 838.1	1 578.2	3 402.6	74.9	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION.	1 449	655	86.1	787.9	64.7	129.9	527.8	1 573.6	1 350.4	2 910.6	62.6	(NA)	(NA)
	OHIO	364	171	24.8	228.9	18.4	37.1	153.1	496.8	396.1	888.1	(D)	(NA)	(NA)
	INDIANA	156	78	9.7	81.0	7.6	15.2	56.3	162.8	156.0	313.8	7.0	(NA)	(NA)
	ILLINOIS	487	221	29.5	272.2	22.1	44.7	180.7	526.7	492.0	1 013.0	19.7	(NA)	(NA)
	MICHIGAN	324	148	15.6	148.5	12.4	24.7	103.5	294.4	238.3	534.3	(D)	(NA)	(NA)
	WISCONSIN	118	37	6.4	57.4	4.3	8.1	34.2	93.1	68.0	161.4	6.1	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area ¹	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials ²	Value of shipments ²	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
349	MISC. FABRICATED METAL PRODUCTS-- CONTINUED													
	NORTH CENTRAL REGION--CONTINUED													
	WEST NORTH CENTRAL DIVISION. . . .	274	101	16.1	143.8	11.6	22.3	88.7	264.5	227.9	492.1	12.3	(NA)	(NA)
	MINNESOTA.	75	28	3.5	33.8	2.7	5.1	22.4	47.1	66.5	112.4	3.5	(NA)	(NA)
	IOWA.	44	19	5.3	52.8	3.4	6.5	28.2	107.9	61.0	168.6	4.3	(NA)	(NA)
	MISSOURI.	91	35	5.0	40.5	3.8	7.4	27.0	65.9	65.1	133.2	3.2	(NA)	(NA)
	NEBRASKA.	21	7	1.3	9.4	1.0	2.0	6.4	21.7	16.1	37.4	.4	(NA)	(NA)
	KANSAS.	37	12	.9	7.2	.7	1.3	4.6	21.7	18.9	35.4	1.0	(NA)	(NA)
	SOUTH REGION.	1 007	400	52.8	418.2	41.3	81.1	290.4	873.9	796.6	1 652.3	54.2	(NA)	(NA)
	SOUTH ATLANTIC DIVISION.	396	136	12.4	95.2	9.7	18.9	65.2	207.1	231.0	442.8	15.1	(NA)	(NA)
	DELAWARE.	6	3	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND.	43	19	1.7	13.4	1.3	2.5	9.5	33.3	31.9	66.2	2.2	(NA)	(NA)
	VIRGINIA.	48	17	1.7	13.2	1.4	2.5	9.3	30.2	51.4	81.7	1.3	(NA)	(NA)
	WEST VIRGINIA.	22	8	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA.	66	33	3.4	26.5	2.6	5.2	17.7	53.0	49.6	103.0	3.6	(NA)	(NA)
	SOUTH CAROLINA.	24	12	1.1	9.5	.8	1.7	6.6	18.7	23.7	42.9	2.3	(NA)	(NA)
	GEORGIA.	44	15	.8	5.5	.7	1.2	3.5	15.3	18.0	32.6	.9	(NA)	(NA)
	FLORIDA.	144	29	2.0	14.2	1.5	3.0	9.0	26.8	27.6	54.3	3.2	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	182	101	19.1	143.5	15.6	30.6	106.1	305.6	239.3	434.7	19.9	(NA)	(NA)
	KENTUCKY.	49	30	6.8	54.3	5.4	10.6	38.2	113.3	89.6	199.5	5.7	(NA)	(NA)
	TENNESSEE.	63	34	5.3	35.2	4.5	8.5	27.3	77.8	66.0	142.6	5.3	(NA)	(NA)
	ALABAMA.	54	27	5.7	44.7	4.7	9.4	33.9	96.2	62.7	153.3	7.2	(NA)	(NA)
	MISSISSIPPI.	16	10	1.3	9.2	1.1	2.2	6.8	18.6	21.0	39.0	1.2	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	427	163	21.3	179.4	16.0	31.5	119.1	361.1	326.3	674.4	19.2	(NA)	(NA)
	ARKANSAS.	25	16	3.2	20.7	2.7	5.3	16.2	43.5	35.7	78.0	3.6	(NA)	(NA)
	LOUISIANA.	29	6	1.2	10.2	.8	1.6	6.7	19.3	14.0	33.1	.7	(NA)	(NA)
	OKLAHOMA.	75	26	2.5	21.4	1.7	3.3	12.1	47.6	36.5	81.8	3.0	(NA)	(NA)
	TEXAS.	298	115	14.5	127.1	10.6	21.2	84.1	250.6	240.1	482.0	12.0	(NA)	(NA)
	WEST REGION.	877	266	22.3	202.8	16.4	32.0	128.7	420.4	344.2	752.5	26.6	(NA)	(NA)
	MOUNTAIN DIVISION.	115	35	2.9	25.3	2.2	4.3	16.6	55.2	45.1	98.3	2.1	(NA)	(NA)
	COLORADO.	47	20	1.9	18.1	1.5	3.0	12.0	38.8	30.6	68.0	1.4	(NA)	(NA)
	ARIZONA.	27	5	.3	2.2	.3	.5	1.5	4.7	3.9	8.6	.2	(NA)	(NA)
	UTAH.	16	3	.3	2.4	.2	.4	1.5	6.2	3.0	8.0	.2	(NA)	(NA)
	PACIFIC DIVISION.	742	231	19.4	177.5	14.2	27.6	112.1	365.1	299.0	454.2	24.5	(NA)	(NA)
	WASHINGTON.	52	10	.6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON.	57	17	1.2	10.4	.9	1.6	6.9	20.9	22.5	43.1	.6	(NA)	(NA)
	CALIFORNIA.	647	203	17.4	159.4	12.7	24.9	99.8	329.7	264.0	564.7	23.4	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

²The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Fabricated metal products (SIC 34)	Metal cans and shipping containers (SIC 341)	Cutlery, handtools, and hardware (SIC 342)	Plumbing and heating, except electric (SIC 343)	Fabricated structural metal products (SIC 344)	Screw machine products, bolts, etc. (SIC 345)	Metal forgings and stampings (SIC 346)	Metal services, n.e.c. (SIC 347)	Ordinance and accessories, n.e.c. (SIC 348)	Miscellaneous fabricated metal products (SIC 349)
ESTABLISHMENTS, TOTALNUMBER	29 525	553	1 904	757	10 351	2 482	3 188	4 761	315	5 214
WITH 1 TO 19 EMPLOYEESDO	17 849	145	1 046	404	6 325	1 474	1 581	3 564	136	3 174
WITH 20 TO 99 EMPLOYEESDO	8 576	199	536	196	3 125	799	1 120	1 054	59	1 458
WITH 100 EMPLOYEES OR MOREDO	3 100	209	322	157	901	209	487	113	120	582
ALL EMPLOYEES, AVERAGE FOR YEAR1,000	1 493.3	78.6	159.2	60.7	394.8	100.6	263.5	82.1	109.5	244.3
PAYROLL FOR YEAR, ALL EMPLOYEESMILLION DOLLARS	13 820.6	839.6	1 404.9	523.8	3 531.8	948.0	2 791.4	624.2	1 019.3	2 141.7
PRODUCTION WORKERS:										
AVERAGE FOR YEAR1,000	1 148.0	66.8	125.8	45.4	290.8	79.2	216.1	67.7	73.2	183.0
MARCHDO	1 116.9	65.3	123.2	44.8	280.1	77.4	210.8	65.8	69.4	180.0
MAYDO	1 136.1	67.6	124.9	45.1	287.8	78.3	213.7	66.6	71.1	181.0
AUGUSTDO	1 154.5	69.2	124.2	44.9	297.9	79.3	213.2	68.4	74.5	183.0
NOVEMBERDO	1 184.3	65.0	130.9	46.9	297.3	81.7	226.8	70.0	77.8	187.8
MAN-HOURSMILLIONS	2 302.7	140.4	254.0	91.0	570.9	164.8	441.6	132.7	144.8	362.5
JANUARY-MARCHDO	557.1	34.0	62.4	22.7	135.8	40.2	106.5	31.4	34.9	89.3
APRIL-JUNEDO	578.7	36.7	64.3	22.6	142.6	41.4	110.8	33.1	35.6	91.6
JULY-SEPTEMBERDO	570.0	37.0	60.5	22.0	145.4	39.9	107.9	33.5	36.0	87.8
OCTOBER-DECEMBERDO	597.0	32.8	66.8	23.7	147.3	43.3	116.4	34.7	36.2	93.8
WAGESMILLION DOLLARS	9 544.4	682.4	984.4	345.0	2 292.1	665.6	2 129.4	445.3	591.0	1 409.2
COST OF MATERIALS, ETC., TOTAL ¹DO	25 197.5	2 985.4	1 920.7	1 040.3	7 544.5	1 276.3	4 934.0	623.5	1 300.1	3 572.7
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMEDDO	22 237.5	2 820.1	1 652.0	941.1	6 457.7	1 043.9	4 520.4	519.1	1 143.5	3 139.6
COST OF RESALESDO	1 512.9	113.0	165.4	64.6	661.3	67.6	120.2	14.0	61.9	244.9
FUELS CONSUMEDDO	278.0	21.1	19.8	12.8	50.6	14.8	63.6	24.3	37.2	33.6
PURCHASED ELECTRIC ENERGYDO	353.2	24.2	30.1	11.6	67.7	24.2	74.3	31.3	34.3	50.6
CONTRACT WORKDO	815.9	7.0	53.5	10.2	307.1	125.8	155.5	34.8	16.2	103.6
VALUE OF SHIPMENTS, INCLUDING RESALES ¹DO	51 739.3	4 972.1	5 094.3	2 136.8	14 179.6	3 091.5	9 956.9	1 736.3	2 787.0	7 784.8
VALUE OF RESALESDO	1 893.6	175.3	224.5	92.4	819.9	61.6	124.0	16.2	77.3	322.1
VALUE ADDED BY MANUFACTUREDO	26 945.8	2 064.6	3 253.4	1 131.6	6 742.9	1 845.3	5 057.3	1 120.3	1 507.3	4 283.0
MANUFACTURERS' INVENTORIES:										
BEGINNING OF YEAR, TOTALDO	7 997.4	726.3	848.6	371.2	2 413.0	489.0	1 124.7	104.3	413.9	1 506.5
FINISHED PRODUCTSDO	2 091.9	210.7	233.1	141.9	429.4	210.7	176.1	18.9	85.6	535.7
WORK IN PROCESSDO	2 704.7	165.1	324.8	89.9	1 016.2	111.3	426.6	16.7	171.7	472.2
MATERIALS, SUPPLIES, FUEL, ETC.DO	3 110.6	350.3	240.7	139.5	967.4	167.1	521.8	68.8	156.6	498.6
END OF YEAR, TOTALDO	8 344.7	676.1	932.6	399.8	2 534.7	523.5	1 171.3	116.1	423.8	1 567.3
FINISHED PRODUCTSDO	2 187.5	230.5	300.0	150.0	453.1	210.1	179.2	20.6	90.0	554.0
WORK IN PROCESSDO	2 997.3	157.3	364.7	110.0	1 072.5	135.4	445.2	19.9	185.4	505.9
MATERIALS, SUPPLIES, FUEL, ETC.DO	3 159.9	288.3	267.9	139.8	1 009.1	178.0	546.9	75.6	147.0	507.4
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTALDO	1 462.5	177.3	154.5	53.7	337.6	103.7	267.1	73.7	65.1	229.7
NEW PLANT AND EQUIPMENT, TOTALDO	1 323.2	146.5	143.0	51.7	317.5	88.9	237.7	64.2	61.6	212.2
NEW STRUCTURES AND ADDITIONS TO PLANTDO	292.5	13.0	31.3	15.0	101.1	14.6	33.0	12.2	22.7	49.5
NEW MACHINERY AND EQUIPMENTDO	1 030.7	133.4	111.7	36.7	216.4	74.3	204.7	52.0	38.6	162.7
USED PLANT AND EQUIPMENTDO	139.2	30.9	11.5	2.0	20.1	14.7	29.4	9.5	3.5	17.5

¹The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

Metal Cans, Cutlery, Handtools and General Hardware

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EXPLANATORY TEXT

METAL CANS, CUTLERY, HANDTOOLS AND GENERAL HARDWARE

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3411—Metal Cans
- 3412—Metal Shipping Barrels, Drums, Kegs and Pails*
- 3421—Cutlery
- 3423—Hand and Edge Tools, Except Machine Tools and Handsaws*
- 3425—Handsaws and Saw Blades
- 3429—Hardware, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3411.—METAL CANS

This industry comprises establishments primarily engaged in manufacturing metal cans from purchased materials. Establishments primarily engaged in manufacturing foil containers are classified in industry 3497. For a detailed list of products of industry 3411, refer to table 6A-1, product codes 34111 10 to 34112 00.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

*Note that the "short title" for this industry is used throughout the report.

Value of shipments and other receipts of the Metal Cans Industry in 1972 totaled \$4,511 million. This included shipments of metal cans (primary products) valued at \$4,181 million, shipments of other products (secondary products) valued at \$152 million, and miscellaneous receipts (mainly resales) of \$178 million.

Shipments of metal cans (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of fiber cans, drums, and similar products (\$46 million).

Shipments of metal cans (primary products) from establishments classified in industry 3411 in 1972 represented 99 percent (coverage ratio) of these products valued at \$4,224 million shipped by all industries. In 1967, the coverage ratio was 98 percent.

Detailed figures on the shipments of metal cans are collected on a monthly basis by the Bureau of the Census on Form M34D. Table 6A-1 shows totals for the data collected in the monthly survey and in the census of manufactures for the same period. Both the census of manufactures data for industry 3411 and the monthly survey include data for "captive" production; that is, the production of cans for use by the producing company. Most of these "captive" establishments are part of food, petroleum, and paint companies. Detailed data by product packed and metal are shown in table 6A-2.

The monthly survey data are reported in terms of base boxes of metal consumed in the manufacture of cans. Also reported separately are the base boxes of steel (tinplate) and aluminum consumed in the manufacture of cans. For 1972, the base boxes of steel (tinplate) have been converted to short tons by use of the factor 25.3 base boxes per short ton of steel. The comparable factor for 1967 is 24.5 base boxes per short ton of steel.

Certain of the larger companies operating establishments classified in industry 3411 also have establishments producing other types of metal containers as well as containers made of other materials. These establishments are classified in other industries; for example: Steel shipping barrels, drums, and pails in industry 3412, Metal Barrels, Drums, and Pails; paper and paperboard boxes, drums, etc., in Major Group 26, Paper and Allied Products.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other

Government agencies and the remaining statistics constructed from industry averages. For industry 3411, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3412.—METAL BARRELS, DRUMS, AND PAILS (Short Title)

This industry comprises establishments primarily engaged in manufacturing ferrous and nonferrous metal shipping barrels, drums, kegs, and pails. For a detailed list of products of industry 3412, refer to table 6A-1, product codes 34121 00 to 34123 19.

The 1972 definition of this industry is the same as that used in the 1967 classification system. However, the SIC number has been changed from 3491 to 3412.

Value of shipments and other receipts of the Metal Barrels, Drums, and Pails Industry in 1972 totaled \$461 million. This included shipments of metal barrels, drums, and pails (primary products) valued at \$438 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts (mainly resales) of \$10 million.

Shipments of metal barrels, drums, and pails (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent.

Shipments of metal barrels, drums, and pails (primary products) from establishments classified in industry 3412 in 1972 represented 86 percent (coverage ratio) of these products valued at \$509 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping metal barrels, drums, and pails consisted mainly of industry 3411, Metal Cans (\$18 million); and industry 3465, Automotive Stampings (\$10 to \$20 million).

Detailed figures on the shipments of metal barrels, drums, and pails are collected on a monthly basis by the Bureau of the Census on Form M34K, "Steel Shipping Barrels, Drums, and Pails." Table 6A-1 shows totals for the data collected in the monthly survey and in the census of manufactures for the same period.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3412, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 3421.—CUTLERY

This industry comprises establishments primarily engaged in manufacturing cutlery. Establishments primarily engaged in manufacturing table cutlery made entirely of metal are classified in industry 3914; those manufacturing electric razors in industry 3634; and those manufacturing hair clippers for human use in industry 3999 and for animal use in industry 3523. For a detailed list of products of industry 3421, refer to table 6A, product codes 34211 11 to 34212 55.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Cutlery Industry in 1972 totaled \$428 million. This included shipments of cutlery (primary products) valued at \$379 million, shipments of other products (secondary products) valued at \$36 million, and miscellaneous receipts (mainly resales) of \$13 million.

Shipments of cutlery (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 79 percent. Secondary products shipped by this industry in 1972 consisted mainly of electric housewares and fans (\$10 to \$20 million).

Shipments of cutlery (primary products) from establishments classified in industry 3421 in 1972 represented 94 percent (coverage ratio) of these products valued at \$404 million shipped by all industries. In 1967, the coverage ratio was 95 percent. Other industries shipping cutlery consisted mainly of industry 3423, Hand and Edge Tools, N.E.C. (\$15 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3421, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 3423.—HAND AND EDGE TOOLS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing files and other hand and edge tools for metal-working, woodworking, and general maintenance. Establishments primarily engaged in manufacturing saws are classified in industry 3425, and metal-cutting dies, power-driven hand-tools, and attachments and accessories for machine tools in

Major Group 35. For a detailed list of products of industry 3423, refer to table 6A-1, product codes 34231 11 to 34233 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Hand and Edge Tools, N.E.C., Industry in 1972 totaled \$1,233 million. This included shipments of hand and edge tools, n.e.c., (primary products) valued at \$979 million, shipments of other products (secondary products) valued at \$119 million, and miscellaneous receipts (mainly resales) of \$135 million.

Shipments of hand and edge tools, n.e.c., (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of special industry machinery (\$16 million); cutlery (\$15 million); and iron and steel forgings (\$13 million).

Shipments of hand and edge tools, n.e.c., (primary products) from establishments classified in industry 3423 in 1972 represented 88 percent (coverage ratio) of these products valued at \$1,114 million shipped by all industries. In 1967, the coverage ratio was 85 percent. Other industries shipping hand and edge tools, n.e.c., consisted mainly of industry 3425, Handsaws and Saw Blades (\$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3423, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3425.—HANDSAWS AND SAW BLADES

This industry comprises establishments primarily engaged in manufacturing handsaws and saw blades for hand and power-driven saws. Establishments primarily engaged in manufacturing power-driven sawing machines are classified in Major Group 35. For a detailed list of products of industry 3425, refer to table 6A-1, product codes 34250 11 to 34250 49.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Handsaws and Saw Blades Industry in 1972 totaled \$194 million. This included shipments of handsaws, saw blades, and saw accessories (primary products) valued at \$154 million, shipments of other products (secondary products) valued at \$27 million, and miscellaneous receipts (mainly resales) of \$13 million.

Shipments of handsaws, saw blades, and saw accessories (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 80 percent. Secondary products shipped by this industry in 1972 consisted mainly of hand and edge tools, n.e.c. (\$20 million).

Shipments of handsaws, saw blades, and saw accessories (primary products) from establishments classified in industry 3425 in 1972 represented 77 percent (coverage ratio) of these products valued at \$202 million shipped by all industries. In 1967, the coverage ratio was 82 percent. Other industries shipping handsaws, saw blades, and saw accessories consisted mainly of industry 3546, Power-Driven Handtools (\$17 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3425, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3429.—HARDWARE, N.E.C.

This industry comprises establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware," not elsewhere classified. Establishments primarily engaged in manufacturing bolts and nuts are classified in industry 3452, nails and spikes in Major Group 33, cutlery in industry 3421, handtools in industry 3423, and pole line and transmission hardware in Major Group 36. For a detailed list of products of industry 3429, refer to table 6A-1, product codes 34292 13 to 34298 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Hardware, N.E.C., Industry in 1972 totaled \$3,244 million. This included

shipments of hardware, n.e.c. (primary products) valued at \$2,923 million, shipments of other products (secondary products) valued at \$190 million, and miscellaneous receipts (mainly resales) of \$130 million.

Shipments of hardware, n.e.c. (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent. Secondary products shipped by this industry in 1972 consisted mainly of special dies, tools, jigs, and fixtures (\$20 to \$50 million).

Shipments of hardware, n.e.c. (primary products) from establishments classified in industry 3429 in 1972 represented 94 percent (coverage ratio) of these products valued at \$3,100

million shipped by all industries. In 1967, the coverage ratio was 95 percent. Other industries shipping hardware, n.e.c., consisted mainly of industry 3647, Vehicular Lighting Equipment (\$20 to \$50 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3429, these establishments accounted for 4 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3411.--METAL CANS															
1972 Census	396	309	68.5	740.7	58.7	123.7	611.3	1,815.8	2,711.9	4,510.8	138.1	(NA)	610.2	96	99
1971 ASM	(NA)	(NA)	68.7	691.1	58.8	121.7	565.3	1,688.1	2,429.4	4,159.4	129.5	1,671.1	643.2	(NA)	(NA)
1970 ASM	(NA)	(NA)	70.1	647.0	60.5	128.0	532.9	1,618.2	2,368.5	3,898.3	144.5	1,549.9	657.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	65.1	573.7	56.4	118.8	476.4	1,410.4	2,144.1	3,548.4	137.9	1,355.4	492.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	63.7	542.3	55.1	119.4	450.5	1,337.7	2,020.8	3,345.4	119.1	1,278.6	533.8	(NA)	(NA)
1967 Census	299	241	60.3	474.4	52.3	112.7	393.3	1,141.5	1,786.2	2,890.6	99.2	1,161.6	449.6	90	98
1966 ASM	(NA)	(NA)	58.7	446.9	51.0	108.0	367.9	1,043.5	1,584.2	2,631.3	99.5	(NA)	396.2	(NA)	(NA)
1965 ASM	(NA)	(NA)	54.9	422.3	46.5	103.0	349.9	1,011.4	1,417.7	2,395.0	79.4	(NA)	428.3	(NA)	(NA)
1964 ASM	(NA)	(NA)	55.1	400.6	47.5	102.0	330.2	932.4	1,335.2	2,255.7	71.8	932.4	337.4	(NA)	(NA)
1963 Census	270	206	53.2	377.0	46.1	97.3	311.1	830.5	1,265.2	2,075.0	66.5	868.9	321.7	97	98
1962 ASM	(NA)	(NA)	53.1	369.3	46.0	98.4	305.4	772.4	1,339.6	2,112.4	60.0	812.6	227.4	(NA)	(NA)
1961 ASM	(NA)	(NA)	53.4	347.6	46.2	96.0	286.9	758.7	1,343.5	2,095.3	47.9	(NA)	288.2	(NA)	(NA)
1960 ASM	(NA)	(NA)	53.6	333.6	46.4	95.8	275.1	666.2	1,279.2	1,936.4	68.4	(NA)	283.6	(NA)	(NA)
1959 ASM	(NA)	(NA)	53.8	332.1	46.6	97.3	274.0	668.3	1,250.8	1,933.7	50.8	(NA)	310.1	(NA)	(NA)
1958 Census	222	189	54.2	303.9	46.9	94.3	249.5	668.6	1,169.7	1,824.1	54.3	(NA)	335.6	98	99
INDUSTRY 3412.--METAL BARRELS, DRUMS, AND PAILS															
1972 Census	157	99	10.2	98.9	8.1	16.7	71.2	188.8	273.5	461.3	8.4	(NA)	65.9	97	86
1971 ASM	(NA)	(NA)	10.6	94.2	8.3	17.3	65.2	183.1	244.7	427.8	10.0	172.4	77.9	(NA)	(NA)
1970 ASM	(NA)	(NA)	11.1	91.9	8.8	18.6	64.9	173.8	234.4	405.0	10.9	170.6	78.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	11.1	89.0	8.9	18.8	64.3	167.1	232.1	399.3	10.9	165.3	65.0	(NA)	(NA)
1968 ASM	(NA)	(NA)	11.0	84.6	8.8	18.9	61.1	156.9	231.2	388.9	*14.8	153.3	63.7	(NA)	(NA)
1967 Census	149	96	11.6	83.5	9.1	19.4	59.9	150.6	221.5	370.7	15.0	142.5	57.1	92	88
1966 ASM	(NA)	(NA)	11.9	81.3	9.7	19.9	58.4	146.2	214.6	361.7	11.1	(NA)	57.2	(NA)	(NA)
1965 ASM	(NA)	(NA)	11.0	73.9	9.0	18.2	53.1	140.6	208.0	347.0	6.7	(NA)	60.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	10.5	70.6	8.4	17.6	50.8	124.8	194.0	317.3	*7.5	116.9	54.9	(NA)	(NA)
1963 Census	145	93	10.5	66.6	8.5	17.7	49.1	119.6	183.9	303.4	6.4	110.4	49.5	92	86
1962 ASM	(NA)	(NA)	9.6	62.2	7.6	16.0	45.1	104.4	175.0	279.5	*5.6	102.5	43.6	(NA)	(NA)
1961 ASM	(NA)	(NA)	9.2	55.5	7.3	14.8	39.9	97.2	158.5	257.1	4.1	(NA)	44.4	(NA)	(NA)
1960 ASM	(NA)	(NA)	9.8	55.6	7.8	14.9	39.0	93.6	163.2	256.3	5.7	(NA)	43.8	(NA)	(NA)
1959 ASM	(NA)	(NA)	*9.4	*54.8	*7.7	*15.3	*40.2	*105.7	*171.5	*277.6	*4.2	(NA)	*37.7	(NA)	(NA)
1958 Census	126	75	9.5	53.2	7.6	15.2	38.8	96.2	153.1	250.3	5.3	(NA)	46.5	92	86
INDUSTRY 3421.--CUTLERY															
1972 Census	134	69	13.4	102.6	10.9	22.3	73.0	322.3	112.9	427.5	11.7	(NA)	81.5	91	94
1971 ASM	(NA)	(NA)	12.2	87.3	9.7	18.8	60.6	277.7	91.6	370.3	10.1	139.2	66.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	12.7	91.8	10.0	20.2	61.4	275.1	91.7	360.0	13.3	139.7	68.1	(NA)	(NA)
1969 ASM	(NA)	(NA)	11.2	76.4	8.9	17.7	52.9	242.8	80.3	332.7	12.3	120.7	54.7	(NA)	(NA)
1968 ASM	(NA)	(NA)	11.6	70.9	9.5	18.8	50.7	232.7	75.5	307.5	4.3	122.3	65.5	(NA)	(NA)
1967 Census	146	69	13.0	80.2	10.4	20.5	54.5	276.3	104.9	378.5	11.5	120.3	62.8	79	95
1966 ASM	(NA)	(NA)	13.7	80.0	10.6	21.4	54.4	270.1	107.5	373.6	11.6	(NA)	63.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	14.2	80.0	11.0	22.4	54.1	256.7	97.6	351.3	11.5	(NA)	56.5	(NA)	(NA)
1964 ASM	(NA)	(NA)	11.8	65.5	9.3	19.7	44.4	214.7	81.6	295.1	9.0	94.0	50.5	(NA)	(NA)
1963 Census	161	67	11.8	64.3	9.5	19.3	43.9	214.0	72.9	283.4	12.4	85.1	47.2	89	97
1962 ASM	(NA)	(NA)	12.4	65.8	9.5	19.1	40.6	194.6	63.3	257.3	11.4	74.2	41.1	(NA)	(NA)
1961 ASM	(NA)	(NA)	11.7	60.3	8.6	17.4	37.2	174.7	57.8	232.3	6.5	(NA)	41.7	(NA)	(NA)
1960 ASM	(NA)	(NA)	11.3	55.8	8.6	17.2	35.2	159.5	54.7	209.3	3.4	(NA)	41.7	(NA)	(NA)
1959 ASM	(NA)	(NA)	12.1	56.2	8.9	17.6	35.3	150.2	51.8	201.9	3.3	(NA)	38.9	(NA)	(NA)
1958 Census	183	72	11.8	52.7	9.1	18.0	34.9	126.3	51.1	179.3	2.4	(NA)	38.0	93	98
INDUSTRY 3423.--HAND AND EDGE TOOLS, N.E.C.															
1972 Census	626	255	39.3	343.0	31.1	62.0	240.7	780.0	473.3	1,233.1	33.5	(NA)	268.1	89	88
1971 ASM	(NA)	(NA)	35.6	285.9	28.3	56.6	200.5	637.7	393.3	1,015.0	30.2	310.9	231.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	37.7	287.7	30.0	59.9	203.5	617.1	378.5	975.9	25.4	317.1	221.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	38.1	279.6	30.3	60.8	198.3	616.3	369.0	981.7	22.8	308.4	199.4	(NA)	(NA)
1968 ASM	(NA)	(NA)	36.0	246.9	28.6	57.5	172.0	540.6	326.4	875.2	24.7	294.1	183.1	(NA)	(NA)
1967 Census	667	252	35.9	232.9	28.7	57.9	165.8	509.4	311.9	813.5	23.3	280.4	177.5	93	85
1966 ASM	(NA)	(NA)	38.0	245.0	30.0	62.8	175.0	511.9	308.5	808.1	19.6	(NA)	174.6	(NA)	(NA)
1965 ASM	(NA)	(NA)	35.3	212.2	27.7	56.1	151.7	455.3	274.5	714.6	16.8	(NA)	159.7	(NA)	(NA)
1964 ASM	(NA)	(NA)	32.7	193.1	25.4	51.5	136.7	390.0	238.2	626.4	13.7	195.8	137.6	(NA)	(NA)
1963 Census	716	255	31.5	176.8	24.5	48.7	125.7	364.3	207.4	565.6	11.0	184.0	132.2	87	84
1962 ASM	(NA)	(NA)	33.7	180.0	26.1	53.9	126.0	358.1	234.5	589.2	12.1	175.4	144.6	(NA)	(NA)
1961 ASM	(NA)	(NA)	32.0	164.9	24.6	49.9	114.6	334.6	205.8	538.5	9.1	(NA)	128.1	(NA)	(NA)
1960 ASM	(NA)	(NA)	31.1	156.0	24.2	48.9	109.5	315.9	185.4	492.6	8.3	(NA)	121.7	(NA)	(NA)
1959 ASM	(NA)	(NA)	31.9	156.7	25.1	50.8	111.1	325.9	193.8	510.0	10.5	(NA)	112.5	(NA)	(NA)
1958 Census	763	250	30.3	142.6	23.6	45.7	99.7	267.3	168.2	440.1	8.6	(NA)	101.2	91	85

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3425.--HANDSAWS AND SAW BLADES														
1972 Census.....	91	52	6.6	56.7	4.9	10.0	37.5	127.5	70.6	194.3	6.4	(NA)	46.4	85	77
1971 ASM	(NA)	(NA)	7.0	57.2	5.1	10.2	33.8	123.3	63.1	183.2	5.9	67.6	49.6	(NA)	(NA)
1970 ASM	(NA)	(NA)	*9.3	*60.1	*6.8	*14.0	*37.4	*114.7	*63.2	*177.8	*5.4	67.9	*46.8	(NA)	(NA)
1969 ASM	(NA)	(NA)	6.7	49.5	5.2	10.6	34.5	115.2	62.9	174.2	5.1	62.2	42.0	(NA)	(NA)
1968 ASM	(NA)	(NA)	6.3	44.2	4.7	9.9	30.9	100.4	58.9	158.3	4.7	58.5	36.7	(NA)	(NA)
1967 Census.....	85	49	6.3	43.4	4.8	10.1	29.5	97.1	58.3	154.3	3.9	55.3	35.0	80	82
1966 ASM	(NA)	(NA)	6.2	40.9	4.8	10.4	28.6	99.5	52.4	149.9	2.8	(NA)	30.2	(NA)	(NA)
1965 ASM	(NA)	(NA)	5.7	36.5	4.5	9.4	25.1	81.7	44.8	125.3	2.3	(NA)	27.0	(NA)	(NA)
1964 ASM	(NA)	(NA)	5.0	31.3	3.7	7.7	20.2	68.1	39.6	106.4	2.7	35.0	25.0	(NA)	(NA)
1963 Census.....	76	42	5.1	29.1	3.8	7.7	19.6	65.6	38.6	102.8	6.3	33.0	24.4	78	85
1962 ASM	(NA)	(NA)	5.3	29.1	4.0	8.0	18.9	64.9	37.6	102.7	2.2	31.7	22.0	(NA)	(NA)
1961 ASM	(NA)	(NA)	5.5	29.7	4.1	8.1	19.1	67.5	38.3	102.3	1.8	(NA)	23.0	(NA)	(NA)
1960 ASM	(NA)	(NA)	5.5	29.7	4.0	8.4	19.5	65.2	34.8	100.1	2.3	(NA)	23.1	(NA)	(NA)
1959 ASM	(NA)	(NA)	5.7	30.9	4.3	8.6	21.4	67.5	38.5	105.2	1.6	(NA)	22.0	(NA)	(NA)
1958 Census	89	38	5.5	28.3	4.1	7.9	18.5	53.7	32.8	87.6	1.2	(NA)	20.6	82	90
	INDUSTRY 3429.--HARDWARE, N. E. C.														
1972 Census.....	1,054	483	100.2	903.9	79.1	160.3	634.1	2,026.2	1,265.7	3,243.8	91.5	(NA)	536.5	94	94
1971 ASM	(NA)	(NA)	96.6	821.2	74.3	156.5	567.6	1,743.6	1,161.6	2,916.8	76.5	1,087.5	490.3	(NA)	(NA)
1970 ASM	(NA)	(NA)	96.6	760.9	72.9	155.1	513.5	1,505.7	1,044.4	2,538.3	66.0	1,079.1	486.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	102.9	777.0	81.1	163.4	551.0	1,618.4	1,104.0	2,689.9	76.2	1,017.6	440.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	102.1	745.6	81.1	175.4	535.6	1,512.8	1,077.4	2,579.8	73.5	978.1	409.5	(NA)	(NA)
1967 Census.....	1,041	484	100.8	686.7	80.0	171.4	492.4	1,435.5	954.5	2,368.3	81.3	951.0	389.5	91	95
1966 ASM	(NA)	(NA)	102.7	675.3	81.9	166.6	485.6	1,398.2	960.0	2,343.8	87.6	(NA)	365.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	98.0	635.2	78.5	162.3	463.7	1,294.8	927.8	2,209.1	98.8	(NA)	333.9	(NA)	(NA)
1964 ASM	(NA)	(NA)	92.5	579.6	73.8	149.5	422.1	1,149.8	811.3	1,937.9	86.4	733.3	319.7	(NA)	(NA)
1963 Census.....	1,069	446	88.1	529.2	70.2	145.6	383.4	1,063.7	730.5	1,785.1	71.0	667.0	277.5	91	93
1962 ASM	(NA)	(NA)	89.9	500.6	69.2	142.0	355.2	966.6	693.6	1,651.8	36.6	618.5	265.7	(NA)	(NA)
1961 ASM	(NA)	(NA)	87.2	465.2	65.8	133.1	320.7	838.3	636.9	1,467.4	39.2	(NA)	259.0	(NA)	(NA)
1960 ASM	(NA)	(NA)	92.2	497.1	71.4	145.0	344.1	886.1	668.8	1,552.4	37.8	(NA)	252.2	(NA)	(NA)
1959 ASM	(NA)	(NA)	89.3	472.0	69.6	145.7	329.5	872.9	647.7	1,500.8	26.9	(NA)	258.8	(NA)	(NA)
1958 Census	1,059	454	88.1	433.3	68.1	134.2	301.5	754.9	590.7	1,347.9	25.6	(NA)	229.5	89	93

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3411	Industry 3412	Industry 3421	Industry 3423	Industry 3425	Industry 3429
1972.....	133	99	123	582	82	965
1967.....	96	91	138	630	74	979
1963.....	99	95	156	681	70	1,025

(NA) Not available. * These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3411.--METAL CANS											
1972 Census.....	10,813	(NA)	86	2,107	4.94	.60	.77	(NA)	26,508	41	14.68 ^a
1971 ASM.....	10,060	24,330	86	2,070	4.65	.58	.75	.40	24,572	41	13.95
1970 ASM.....	9,230	22,110	86	2,116	4.16	.61	.77	.39	23,084	40	12.64
1969 ASM.....	8,813	20,820	87	2,106	4.01	.60	.77	.38	21,665	41	11.87
1968 ASM.....	8,513	20,070	86	2,167	3.77	.60	.77	.38	21,000	41	11.20
1967 Census.....	7,867	19,260	87	2,155	3.49	.62	.78	.40	18,930	42	10.13
1966 ASM.....	7,614	(NA)	87	2,116	3.41	.60	.77	(NA)	17,776	43	9.67
1965 ASM.....	7,696	(NA)	85	2,215	3.40	.59	.77	(NA)	18,432	42	9.82
1964 ASM.....	7,276	16,920	86	2,149	3.24	.59	.77	.41	16,935	43	9.14
1963 Census.....	7,081	16,330	87	2,111	3.20	.61	.79	.42	15,598	45	8.53
1962 ASM.....	6,959	15,300	87	2,139	3.10	.63	.81	.38	14,554	48	7.85
1961 ASM.....	6,515	(NA)	87	2,078	2.99	.64	.81	(NA)	14,220	46	7.90
1960 ASM.....	6,230	(NA)	87	2,066	2.87	.66	.83	(NA)	12,439	50	6.95
1959 ASM.....	6,177	(NA)	87	2,088	2.81	.65	.82	(NA)	12,430	50	6.86
1958 Census.....	5,603	(NA)	87	2,010	2.65	.64	.81	(NA)	12,327	45	7.09
INDUSTRY 3412.--METAL BARRELS, DRUMS, AND PAILS											
1972 Census.....	9,696	(NA)	79	2,062	4.26	.59	.81	(NA)	18,510	52	11.31
1971 ASM.....	8,887	16,260	78	2,084	3.77	.57	.79	.40	17,274	51	10.58
1970 ASM.....	8,279	15,370	79	2,114	3.49	.58	.81	.42	15,658	53	9.34
1969 ASM.....	8,018	14,890	80	2,112	3.42	.58	.80	.41	15,054	53	8.89
1968 ASM.....	7,691	13,940	80	2,148	3.23	.59	.81	.39	14,264	54	8.30
1967 Census.....	7,198	12,280	78	2,132	3.09	.60	.82	.38	12,983	55	7.76
1966 ASM.....	6,842	(NA)	81	2,060	2.93	.59	.82	(NA)	12,314	56	7.34
1965 ASM.....	6,703	(NA)	81	2,032	2.91	.60	.81	(NA)	12,753	53	7.72
1964 ASM.....	6,711	11,130	80	2,090	2.89	.61	.83	.37	11,853	57	7.09
1963 Census.....	6,339	10,510	81	2,089	2.77	.61	.83	.36	11,383	56	6.75
1962 ASM.....	6,480	10,680	80	2,090	2.83	.63	.85	.37	10,886	60	6.54
1961 ASM.....	6,031	(NA)	79	2,024	2.71	.62	.83	(NA)	10,560	57	6.59
1960 ASM.....	5,689	(NA)	80	1,901	2.62	.64	.85	(NA)	9,581	59	6.29
1959 ASM.....	5,826	(NA)	82	1,990	2.62	.62	.82	(NA)	11,238	52	6.90
1958 Census.....	5,602	(NA)	80	2,010	2.54	.61	.82	(NA)	10,128	55	6.31
INDUSTRY 3421.--CUTLERY											
1972 Census.....	7,658	(NA)	80	2,046	3.27	.26	.50	(NA)	24,052	32	14.45
1971 ASM.....	7,156	11,410	80	1,938	3.22	.25	.48	.38	22,762	31	14.77
1970 ASM.....	7,228	11,000	79	2,020	3.04	.26	.51	.38	21,661	33	13.62
1969 ASM.....	6,821	10,780	79	1,989	2.99	.24	.47	.36	21,679	32	13.78
1968 ASM.....	6,112	10,540	82	1,979	2.70	.25	.48	.40	20,060	31	12.38
1967 Census.....	6,169	9,250	80	1,971	2.66	.28	.49	.32	21,254	29	13.48
1966 ASM.....	5,839	(NA)	78	2,013	2.54	.29	.50	(NA)	19,715	31	12.62
1965 ASM.....	5,648	(NA)	78	2,037	2.42	.28	.51	(NA)	18,115	31	11.46
1964 ASM.....	5,542	7,970	79	2,118	2.25	.28	.50	.32	18,155	31	10.87
1963 Census.....	5,431	7,210	80	2,036	2.27	.26	.48	.30	18,079	30	11.08
1962 ASM.....	5,301	5,980	76	2,016	2.13	.25	.50	.29	15,670	34	10.19
1961 ASM.....	5,164	(NA)	74	2,021	2.14	.25	.51	(NA)	14,965	35	10.05
1960 ASM.....	4,942	(NA)	76	2,004	2.05	.26	.53	(NA)	14,117	35	9.27
1959 ASM.....	4,651	(NA)	73	1,977	2.01	.26	.54	(NA)	12,422	37	8.56
1958 Census.....	4,458	(NA)	77	1,975	1.94	.29	.58	(NA)	10,676	42	7.02
INDUSTRY 3423.--HAND AND EDGE TOOLS, N.E.C.											
1972 Census.....	8,728	(NA)	79	1,994	3.88	.38	.66	(NA)	19,847	44	12.58
1971 ASM.....	8,031	8,730	80	2,000	3.54	.39	.67	.31	17,913	45	11.27
1970 ASM.....	7,631	8,410	80	1,997	3.40	.39	.68	.32	16,369	47	10.30
1969 ASM.....	7,339	8,090	80	2,007	3.26	.38	.66	.31	16,176	45	10.14
1968 ASM.....	6,858	8,170	79	2,010	2.99	.37	.66	.34	15,017	46	9.40
1967 Census.....	6,487	7,810	80	2,017	2.86	.38	.67	.34	14,189	46	8.80
1966 ASM.....	6,451	(NA)	79	2,092	2.79	.38	.68	(NA)	13,480	48	8.15
1965 ASM.....	6,020	(NA)	79	2,024	2.71	.38	.68	(NA)	12,916	47	8.12
1964 ASM.....	5,913	5,990	78	2,027	2.65	.38	.69	.31	11,943	50	7.57
1963 Census.....	5,617	5,840	78	1,988	2.58	.37	.68	.33	11,571	49	7.48
1962 ASM.....	5,340	5,200	77	2,066	2.34	.40	.70	.30	10,622	50	6.65
1961 ASM.....	5,150	(NA)	77	2,030	2.30	.38	.69	(NA)	10,449	49	6.71
1960 ASM.....	5,015	(NA)	78	2,022	2.24	.38	.69	(NA)	10,157	49	6.47
1959 ASM.....	4,908	(NA)	79	2,025	2.19	.38	.69	(NA)	10,209	48	6.42
1958 Census.....	4,709	(NA)	78	1,935	2.18	.38	.71	(NA)	8,830	53	5.85

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3425.--HANDSAWS AND SAW BLADES											
1972 Census.....	8,591	(NA)	74	2,041	3.75	.36	.66	(NA)	19,318	44	12.75
1971 ASM.....	8,171	9,660	73	2,000	3.31	.34	.66	.37	17,614	46	12.09
1970 ASM.....	6,462	7,300	73	2,059	2.67	.36	.69	.38	12,333	52	8.19
1969 ASM.....	7,388	9,280	78	2,038	3.26	.36	.65	.36	17,194	43	10.87
1968 ASM.....	7,016	9,290	75	2,106	3.12	.37	.65	.37	15,937	44	10.14
1967 Census.....	6,889	8,780	76	2,104	2.92	.38	.66	.36	15,413	45	9.61
1966 ASM.....	6,607	(NA)	78	2,175	2.74	.35	.62	(NA)	16,086	41	9.54
1965 ASM.....	6,381	(NA)	78	2,116	2.66	.36	.65	(NA)	14,268	45	8.65
1964 ASM.....	6,235	7,000	74	2,084	2.63	.37	.67	.33	13,593	46	8.87
1963 Census.....	5,721	6,470	74	2,049	2.54	.38	.66	.32	12,882	44	8.50
1962 ASM.....	5,509	5,980	75	2,033	2.34	.37	.65	.31	12,277	45	8.06
1961 ASM.....	5,410	(NA)	75	1,983	2.35	.37	.67	(NA)	12,284	44	8.30
1960 ASM.....	5,448	(NA)	74	2,074	2.32	.35	.64	(NA)	11,964	46	7.78
1959 ASM.....	5,470	(NA)	76	2,000	2.48	.37	.66	(NA)	11,939	46	7.82
1958 Census.....	5,139	(NA)	74	1,934	2.34	.37	.70	(NA)	9,740	53	6.81
INDUSTRY 3429.--HARDWARE, N.E.C.											
1972 Census.....	9,021	(NA)	79	2,027	3.96	.39	.67	(NA)	20,222	45	12.64
1971 ASM.....	8,501	11,260	77	2,106	3.63	.40	.68	.37	18,050	47	11.14
1970 ASM.....	7,877	11,170	76	2,128	3.31	.41	.71	.43	15,587	51	9.71
1969 ASM.....	7,551	9,890	79	2,015	3.37	.41	.70	.38	15,728	48	9.90
1968 ASM.....	7,303	9,580	79	2,163	3.05	.42	.71	.38	14,817	49	8.62
1967 Census.....	6,813	9,430	79	2,143	2.87	.40	.69	.40	14,241	48	8.38
1966 ASM.....	6,576	(NA)	80	2,034	2.91	.41	.70	(NA)	13,614	48	8.39
1965 ASM.....	6,484	(NA)	80	2,069	2.86	.42	.71	(NA)	13,216	49	7.98
1964 ASM.....	6,265	7,930	80	2,027	2.82	.42	.72	.38	12,430	50	7.69
1963 Census.....	6,004	7,570	80	2,073	2.63	.41	.71	.37	12,068	50	7.30
1962 ASM.....	5,567	6,880	77	2,053	2.50	.42	.72	.37	10,750	52	6.81
1961 ASM.....	5,336	(NA)	75	2,022	2.41	.43	.75	(NA)	9,617	55	6.30
1960 ASM.....	5,392	(NA)	77	2,031	2.37	.43	.75	(NA)	9,611	56	6.11
1959 ASM.....	5,283	(NA)	78	2,095	2.26	.43	.75	(NA)	9,770	54	5.99
1958 Census.....	4,918	(NA)	77	1,971	2.25	.44	.76	(NA)	8,569	57	5.63

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3411-- METAL CANS													
UNITED STATES.	396	309	68.5	740.7	58.7	123.7	611.3	1 815.8	2 711.9	4 510.7	138.1	60.3	1 141.5
NORTHEAST REGION	86	65	16.4	172.0	14.1	30.0	143.1	370.1	541.4	904.4	20.9	15.8	289.0
NEW ENGLAND DIVISION	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	18.6
MAINE.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS.	5	5	.8	8.6	.7	1.4	6.7	21.7	39.8	60.3	(D)	CC	(D)
CONNECTICUT.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	76	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14.8	270.4
NEW YORK	29	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	58.2
NEW JERSEY	27	22	7.0	75.6	6.0	12.7	62.2	172.6	214.2	386.2	5.9	7.5	134.3
PENNSYLVANIA	20	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	77.9
NORTH CENTRAL REGION	118	98	23.9	261.5	20.5	43.4	214.9	631.0	935.5	1 558.3	59.3	22.0	399.5
EAST NORTH CENTRAL DIVISION.	86	73	18.2	195.1	15.6	32.7	159.3	457.1	677.6	1 126.5	49.0	16.9	289.1
OHIO	20	18	3.3	32.2	2.7	5.7	24.7	101.8	136.2	236.5	9.9	2.7	55.4
INDIANA.	10	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS	31	29	9.7	104.5	8.3	17.2	84.7	209.1	257.6	465.9	11.6	10.4	151.9
MICHIGAN	10	6	.5	5.7	.5	1.0	5.0	22.5	51.9	74.0	(D)	BB	(D)
WISCONSIN.	15	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	51.3
WEST NORTH CENTRAL DIVISION.	32	25	5.7	66.4	4.9	10.6	55.6	173.9	257.9	431.8	10.3	5.1	110.4
MINNESOTA.	12	10	1.6	18.4	1.3	3.0	15.0	60.7	85.1	145.0	2.2	1.4	34.8
MISSOURI	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEBRASKA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION	103	79	14.8	157.6	12.8	26.7	130.4	432.8	649.3	1 073.2	29.6	11.2	208.7
SOUTH ATLANTIC DIVISION.	53	42	9.4	99.3	8.1	16.9	83.3	228.9	395.6	618.9	19.8	6.9	113.0
MARYLAND	13	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	53.2
VIRGINIA	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	11	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
FLORIDA.	17	11	2.5	29.0	2.2	4.7	24.6	73.9	115.1	186.5	3.6	2.1	45.8
EAST SOUTH CENTRAL DIVISION.	17	10	.9	8.4	.8	1.7	6.5	31.1	42.1	71.7	2.7	.5	9.8
TENNESSEE.	9	4	.4	4.0	.3	.7	2.9	16.9	15.8	31.7	2.3	.2	3.8
MISSISSIPPI.	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	33	27	4.5	49.9	3.8	8.1	40.6	172.8	211.6	382.6	7.1	3.9	85.8
LOUISIANA.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TEXAS.	25	21	3.3	36.9	2.8	6.0	30.1	123.4	170.7	294.0	6.2	2.5	57.8
WEST REGION.	89	67	13.4	149.7	11.3	23.7	122.9	381.8	585.6	974.9	28.3	11.3	244.3
MOUNTAIN DIVISION.	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	13.7
COLORADO	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	9.0
PACIFIC DIVISION	79	60	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.9	230.6
WASHINGTON	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	23.9
OREGON	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA	59	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.0	188.9
HAWAII	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3412-- METAL BARRELS, DRUMS, AND PAILS													
UNITED STATES.	157	99	10.2	98.9	8.1	16.7	71.2	188.8	273.5	461.3	8.4	11.6	150.6
NORTHEAST REGION	36	25	2.6	23.8	2.0	4.2	17.0	46.0	65.5	111.5	2.5	2.4	32.5
NEW ENGLAND DIVISION	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	30	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NEW JERSEY	13	12	1.4	14.2	1.2	2.4	10.1	26.0	36.6	62.7	1.9	1.6	21.9
PENNSYLVANIA	10	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CENTRAL REGION	49	38	3.9	41.4	3.1	6.7	29.8	76.3	99.8	175.6	2.9	4.6	53.4
EAST NORTH CENTRAL DIVISION.	42	32	3.7	39.1	2.9	6.3	27.9	72.0	92.4	163.9	2.6	4.3	50.1
OHIO	19	16	1.5	14.3	1.2	2.5	10.6	26.8	40.6	67.1	1.0	1.5	17.3
INDIANA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ILLINOIS	16	12	1.7	20.4	1.4	3.1	14.4	33.9	45.8	79.5	1.2	2.3	26.9
WEST NORTH CENTRAL DIVISION.	7	6	.3	2.3	.2	.4	1.9	4.3	7.4	11.7	.2	.3	3.3
KANSAS	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	50	26	2.5	22.1	2.0	4.0	15.9	44.8	75.7	120.5	1.9	2.6	34.8
SOUTH ATLANTIC DIVISION.	20	9	.8	5.2	.6	1.0	3.7	11.3	19.1	30.3	.5	.8	9.7
GEORGIA.	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	3	3	.3	1.1	.2	.2	.6	2.3	3.6	5.9	(Z)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	11	5	.5	4.4	.4	.9	3.0	8.5	14.1	22.3	.2	CC	(D)
ALABAMA.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION.	19	12	1.3	12.5	1.0	2.1	9.2	24.9	42.5	67.9	1.1	EE	(D)
LOUISIANA.	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS.	11	8	.7	6.8	.6	1.1	4.9	13.7	24.1	38.2	.6	.7	12.0
WEST REGION.	22	10	1.1	11.5	.9	1.8	8.5	21.7	32.5	53.7	1.1	2.0	30.0
PACIFIC DIVISION	21	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	18	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	28.9

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3421-- CUTLERY													
UNITED STATES	134	69	13.4	102.6	10.9	22.3	73.0	322.3	112.9	427.5	11.7	13.0	276.3
NORTHEAST REGION	70	45	10.4	80.7	8.5	17.6	57.7	273.9	86.7	352.3	9.8	10.5	241.3
NEW ENGLAND DIVISION	30	17	5.8	46.7	4.6	9.6	32.0	209.4	47.8	251.8	7.9	6.7	202.4
MASSACHUSETTS	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
RHODE ISLAND	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION	40	28	4.6	34.0	3.9	8.0	25.8	64.5	38.9	100.5	1.8	3.9	38.9
NEW YORK	20	15	1.8	12.9	1.6	3.2	10.0	22.6	13.8	35.9	1.0	1.5	15.8
NEW JERSEY	15	9	2.1	17.1	1.7	3.5	12.2	34.4	20.7	53.6	.6	1.8	18.2
PENNSYLVANIA	5	4	.6	4.0	.6	1.2	3.5	7.5	4.3	11.0	.2	.6	4.9
NORTH CENTRAL REGION E1	37	11	1.0	7.5	.8	1.6	5.3	16.0	13.0	29.1	.6	1.0	12.1
EAST NORTH CENTRAL DIVISION	28	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
OHIO	10	5	.6	4.7	.5	1.0	3.5	9.3	7.4	16.8	.3	.6	7.7
WISCONSIN E2	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION	14	7	1.3	9.9	1.1	2.1	6.8	23.1	8.8	32.9	1.2	1.1	19.9
SOUTH ATLANTIC DIVISION	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MARYLAND	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
FLORIDA	4	2	.2	.7	.2	.3	.6	1.1	.6	1.6	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ARKANSAS	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION	13	6	.7	4.5	.6	1.0	3.2	9.3	4.4	13.2	.2	.3	3.0
MOUNTAIN DIVISION	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
OREGON	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3423-- HAND AND EDGE TOOLS, NEC													
UNITED STATES	626	255	39.3	343.0	31.1	62.0	240.7	780.0	473.3	1 233.1	33.5	35.9	509.4
NORTHEAST REGION	223	102	15.8	139.8	12.4	24.9	97.5	296.6	187.5	467.1	11.8	15.0	187.1
NEW ENGLAND DIVISION	92	44	6.8	62.4	5.1	10.2	40.6	143.0	97.1	231.3	4.1	5.5	72.5
MASSACHUSETTS	48	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	35.1
CONNECTICUT	26	14	3.7	36.1	2.5	5.1	19.9	66.7	51.9	132.5	3.2	2.3	33.1
MIDDLE ATLANTIC DIVISION	131	58	9.0	77.4	7.3	14.7	56.9	153.6	90.5	235.8	7.7	9.5	114.6
NEW YORK	57	24	4.5	39.8	3.6	7.3	30.0	70.7	41.4	108.7	2.4	4.8	59.9
NEW JERSEY E1	29	14	1.6	12.3	1.3	2.5	8.4	30.5	19.0	47.9	3.1	1.7	17.5
PENNSYLVANIA	45	20	2.9	25.3	2.4	4.9	18.5	52.3	30.0	79.3	2.2	3.0	37.1
NORTH CENTRAL REGION	250	106	16.1	147.1	12.6	25.2	100.4	344.3	202.4	540.8	(D)	14.9	230.0
EAST NORTH CENTRAL DIVISION	192	78	12.4	114.7	9.5	18.8	76.9	282.9	164.7	444.8	(D)	11.8	195.4
OHIO	58	27	5.2	48.7	4.0	7.9	33.6	112.4	59.8	172.6	2.2	5.1	83.6
INDIANA	20	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS	53	23	3.6	36.2	2.8	5.8	24.7	92.1	44.6	133.9	3.5	3.3	56.1
MICHIGAN	40	16	1.0	8.8	.8	1.4	5.3	19.8	16.5	36.0	2.4	.9	14.9
WISCONSIN	21	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION	58	28	3.7	32.4	3.1	6.4	23.5	61.4	37.7	96.0	1.6	3.1	34.6
MINNESOTA	16	8	1.6	14.8	1.4	2.8	10.0	26.1	18.5	42.5	.6	1.2	12.0
IOWA	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.2
MISSOURI E2	17	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEBRASKA	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.0
KANSAS	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION	50	14	3.4	24.5	2.8	5.5	18.2	63.3	43.8	101.7	(D)	3.2	47.6
SOUTH ATLANTIC DIVISION	22	7	2.6	20.0	2.2	4.1	14.5	47.5	24.5	69.5	1.2	2.8	40.5
WEST VIRGINIA	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION E1	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
KENTUCKY E2	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE E1	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	16	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ARKANSAS	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	103	33	3.9	31.6	3.3	6.4	24.7	75.7	39.5	123.4	6.3	2.7	44.8
MOUNTAIN DIVISION	18	7	.9	6.8	.8	1.6	4.8	16.8	6.3	23.2	3.0	.3	4.7
COLORADO	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION	85	26	2.9	24.8	2.5	4.8	19.9	59.0	33.2	100.2	3.3	2.4	40.1
WASHINGTON	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON E1	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA	72	22	2.5	21.3	2.1	4.1	17.2	53.5	29.3	90.2	3.2	2.1	36.0
3425-- HANDSAWS AND SAW BLADES													
UNITED STATES	91	52	6.6	56.7	4.9	10.0	37.5	127.5	70.6	194.3	6.4	6.3	97.1
NORTHEAST REGION	29	19	2.9	24.9	2.2	4.4	17.3	61.7	37.1	96.9	2.2	3.3	50.2
NEW ENGLAND DIVISION	7	6	1.7	10.2	1.2	2.6	10.9	43.6	23.0	65.1	1.8	2.2	39.5
MASSACHUSETTS	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	31.7
CONNECTICUT	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total (number)	With 20 employees or more (number)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3425-- HANDSAWS AND SAW BLADES--CONTINUED													
NORTHEAST REGION--CONTINUED													
MIDDLE ATLANTIC DIVISION	22	13	1.2	8.7	1.0	1.9	6.4	18.1	14.2	31.8	.4	1.1	10.7
NEW YORK E1	13	9	.9	6.8	.8	1.4	4.9	15.1	11.6	26.2	.3	.6	4.7
PENNSYLVANIA	6	4	.2	1.7	.2	.4	1.3	2.6	2.4	5.1	.1	.5	5.8
NORTH CENTRAL REGION	28	12	1.0	8.8	.8	1.5	5.6	21.2	10.5	31.4	.9	1.3	21.7
EAST NORTH CENTRAL DIVISION . . .	27	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO	11	5	.4	2.8	.3	.6	2.0	4.6	3.1	7.4	(D)	.3	2.9
ILLINOIS	9	4	.3	3.3	.3	.5	2.0	10.5	3.9	14.2	(D)	.5	10.3
MICHIGAN	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION	15	10	1.4	10.2	1.1	2.3	7.4	18.0	14.9	32.8	1.0	1.4	20.1
SOUTH ATLANTIC DIVISION . . . E1	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA E1	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . .	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KENTUCKY	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSISSIPPI	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION E1	19	11	1.3	12.8	.9	1.7	7.2	26.5	8.1	33.2	2.3	.3	5.1
PACIFIC DIVISION E1	19	11	1.3	12.8	.9	1.7	7.2	26.5	8.1	33.2	2.3	.3	5.1
OREGON E1	11	7	1.1	11.3	.7	1.4	6.2	24.0	6.7	29.8	2.0	.2	2.5
3429-- HARDWARE, NEC													
UNITED STATES	1 054	483	100.2	903.9	79.1	160.3	634.1	2 026.2	1 265.7	3 243.8	91.5	100.8	1 435.5
NORTHEAST REGION	314	144	27.8	240.6	21.6	43.2	167.7	487.3	283.6	761.8	23.1	29.4	370.2
NEW ENGLAND DIVISION	93	47	12.4	99.5	9.4	18.1	66.8	181.9	100.1	279.2	9.9	15.3	167.3
NEW HAMPSHIRE	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.0
MASSACHUSETTS	35	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT	50	32	9.8	81.1	7.4	14.2	55.2	149.9	81.0	228.1	8.3	11.4	133.3
MIDDLE ATLANTIC DIVISION	221	97	15.4	141.1	12.2	25.1	100.9	305.4	183.5	482.6	13.2	15.2	214.6
NEW YORK	119	47	6.7	61.6	5.1	11.1	42.0	137.1	88.3	219.6	6.5	6.8	84.5
NEW JERSEY	42	17	4.9	51.5	4.0	7.9	39.1	114.1	52.1	165.9	3.7	5.5	98.8
PENNSYLVANIA	60	33	3.8	28.0	3.1	6.1	19.7	54.1	43.1	97.2	3.1	2.9	31.3
NORTH CENTRAL REGION	377	208	50.4	488.7	40.4	82.3	349.4	1 136.0	765.4	1 881.6	(D)	52.1	837.2
EAST NORTH CENTRAL DIVISION . . .	324	181	47.2	462.8	37.8	77.2	332.1	1 083.8	716.1	1 781.0	(D)	49.6	807.3
OHIO	54	35	9.9	114.2	7.6	15.5	83.0	291.2	187.3	475.5	7.5	12.4	245.9
INDIANA	37	20	3.1	24.1	2.5	4.8	16.7	58.1	46.2	104.1	(D)	2.7	37.7
ILLINOIS	102	57	14.4	119.7	11.3	22.9	76.4	243.4	146.6	387.3	12.6	13.6	162.7
MICHIGAN	107	59	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.7	313.6
WISCONSIN	24	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	47.3
WEST NORTH CENTRAL DIVISION . . .	53	27	3.2	25.9	2.6	5.1	17.3	52.2	49.4	100.6	1.7	2.5	29.9
MINNESOTA	20	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
IOWA E1	8	5	.8	6.5	.6	1.1	4.2	13.5	17.4	30.2	.6	.5	6.7
MISSOURI	17	13	1.3	11.6	1.1	2.2	7.8	19.5	16.1	36.2	.5	1.1	13.2
KANSAS	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	142	59	9.7	67.5	7.6	15.4	44.4	150.1	96.2	243.1	(D)	9.0	90.8
SOUTH ATLANTIC DIVISION	68	30	3.9	27.0	3.0	6.2	17.5	63.4	38.4	100.9	6.2	3.1	34.3
WEST VIRGINIA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	17	12	1.7	11.4	1.4	2.8	8.0	29.0	16.7	45.9	4.8	1.1	18.4
SOUTH CAROLINA E1	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA E1	28	9	1.1	9.0	.8	1.7	4.9	19.7	10.7	29.6	.4	.8	7.6
EAST SOUTH CENTRAL DIVISION . . .	26	18	4.3	30.3	3.4	6.7	20.4	69.4	39.9	107.2	2.7	4.7	45.9
KENTUCKY	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE	10	7	2.8	21.1	2.1	4.1	13.5	46.4	19.8	65.4	2.2	3.6	33.2
ALABAMA	5	3	.6	3.1	.6	1.1	2.6	5.9	2.6	8.3	.1	BB	(D)
MISSISSIPPI	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION . . .	48	11	1.6	10.2	1.2	2.5	6.4	17.3	17.8	35.1	(D)	1.2	10.6
ARKANSAS	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS E1	37	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION	221	72	12.2	107.1	9.5	19.4	72.8	252.9	120.5	357.2	13.8	10.2	137.3
MOUNTAIN DIVISION	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
COLORADO	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PACIFIC DIVISION	211	68	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON	16	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.5
OREGON	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA	183	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.3	125.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

(See appendix. Explanation of Terms)

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

(See appendix, Explanation of Terms)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3412-- METAL BARRELS, DRUMS, AND PAILS											
ESTABLISHMENTS, TOTAL.	157	10.2	98.9	8.1	16.7	71.2	188.8	273.5	461.3	8.4	65.9
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E7	21	(2)	.3	(2)	.1	.2	.8	1.1	1.9	(2)	.3
5 TO 9 EMPLOYEES E3	15	.1	.7	.1	.1	.5	1.8	2.2	4.0	.2	.7
10 TO 19 EMPLOYEES E2	22	.3	2.6	.2	.5	1.7	4.7	7.2	11.9	.4	1.7
20 TO 49 EMPLOYEES	31	1.0	8.0	.9	1.6	6.2	19.6	28.9	48.5	.8	6.3
50 TO 99 EMPLOYEES	32	2.5	24.0	2.0	4.1	17.0	48.6	80.0	128.7	2.1	14.8
100 TO 249 EMPLOYEES	33	5.1	49.7	4.1	8.5	36.9	90.0	132.2	221.3	3.8	36.4
250 TO 499 EMPLOYEES	3	1.0	13.6	.7	1.8	8.6	23.3	21.9	45.0	1.0	5.7
ESTABS. COVERED BY ADMIN. RECORD ¹ .	16	(2)	.3	(2)	.1	.2	.7	.9	1.6	(2)	.3
3421-- CUTLERY											
ESTABLISHMENTS, TOTAL.	134	13.4	102.6	10.9	22.3	73.0	322.3	112.9	427.5	11.7	81.5
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E9	36	.1	.6	.1	.1	.4	2.2	.8	2.9	.1	.5
5 TO 9 EMPLOYEES E7	18	.1	.8	.1	.2	.5	1.7	.6	2.3	.1	.4
10 TO 19 EMPLOYEES E3	11	.2	1.2	.1	.3	.8	2.4	1.1	3.5	.1	.6
20 TO 49 EMPLOYEES E1	19	.6	4.0	.5	.9	2.6	7.4	5.5	12.9	.3	2.1
50 TO 99 EMPLOYEES E1	14	1.1	7.5	.9	1.8	5.5	17.3	10.4	27.0	.5	4.9
100 TO 249 EMPLOYEES	25	4.0	26.8	3.4	6.7	19.6	55.7	38.2	91.5	1.6	20.7
250 TO 499 EMPLOYEES	5	1.6	11.8	1.4	2.7	9.3	22.4	13.8	35.8	.9	9.0
500 TO 999 EMPLOYEES	3	5.8	50.0	4.4	9.6	34.3	213.2	42.5	251.6	8.0	43.3
1,000 TO 2,499 EMPLOYEES	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	40	.1	1.0	.1	.2	.6	2.3	.8	3.2	.1	.6
3423-- HAND AND EDGE TOOLS, NEC											
ESTABLISHMENTS, TOTAL.	626	39.3	343.0	31.1	62.0	240.7	780.0	473.3	1 233.1	33.5	268.1
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E9	215	.4	2.7	.3	.6	1.9	7.5	4.8	12.3	.3	2.8
5 TO 9 EMPLOYEES E7	69	.5	3.6	.4	.7	2.5	7.4	4.2	11.6	.3	2.3
10 TO 19 EMPLOYEES E1	87	1.2	10.1	1.0	1.9	6.5	21.0	13.0	33.5	.7	5.5
20 TO 49 EMPLOYEES	109	3.4	27.9	2.8	5.3	18.9	57.2	33.0	89.6	2.8	13.9
50 TO 99 EMPLOYEES	62	4.4	35.4	3.5	6.8	24.8	76.6	52.1	126.6	7.6	22.8
100 TO 249 EMPLOYEES	42	6.3	50.4	4.9	10.0	35.3	114.0	75.7	183.4	3.8	34.4
250 TO 499 EMPLOYEES	26	9.8	87.9	8.2	16.7	67.5	197.8	108.0	298.8	7.4	68.3
500 TO 999 EMPLOYEES	12	8.4	77.1	6.7	13.1	54.0	192.1	114.0	308.1	7.0	70.0
1,000 TO 2,499 EMPLOYEES	4	4.9	48.0	3.4	7.0	29.2	106.5	68.4	169.2	3.6	48.0
ESTABS. COVERED BY ADMIN. RECORD ¹ .	221	.6	4.7	.5	.9	3.3	10.9	7.0	17.9	.5	4.2
3425-- HANDSAWS AND SAW BLADES											
ESTABLISHMENTS, TOTAL.	91	6.6	56.7	4.9	10.0	37.5	127.5	70.6	194.3	6.4	46.4
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E8	13	(2)	.2	(2)	.1	.1	.4	.2	.7	(2)	.2
5 TO 9 EMPLOYEES E6	11	.1	.6	.1	.1	.4	1.0	.6	1.5	(2)	.3
10 TO 19 EMPLOYEES E1	15	.2	1.6	.2	.3	1.0	2.9	1.5	4.4	.1	.6
20 TO 49 EMPLOYEES	23	.7	5.8	.6	1.1	4.0	11.9	6.8	18.6	.8	3.4
50 TO 99 EMPLOYEES	14	1.1	8.6	.8	1.6	5.8	17.3	7.0	23.6	.5	4.5
100 TO 249 EMPLOYEES E1	9	1.5	13.3	1.1	2.3	8.8	37.2	19.6	54.9	3.0	13.3
250 TO 499 EMPLOYEES	4	3.1	26.7	2.2	4.5	17.3	56.8	31.9	90.6	1.9	24.2
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	16	.1	.5	.1	.1	.3	1.0	.5	1.4	(2)	.4
3429-- HARDWARE, NEC											
ESTABLISHMENTS, TOTAL.	1 054	100.2	903.9	79.1	160.3	634.1	2 026.2	1 265.7	3 243.7	91.5	536.5
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E8	287	.5	3.7	.5	.7	2.6	10.2	7.4	17.7	.5	3.3
5 TO 9 EMPLOYEES E5	156	1.0	8.2	.8	1.5	5.2	19.5	14.9	34.1	.8	5.7
10 TO 19 EMPLOYEES E2	128	1.9	14.8	1.4	2.7	9.4	30.3	24.9	55.2	2.0	7.7
20 TO 49 EMPLOYEES E1	187	5.9	45.5	4.7	8.9	29.5	95.1	81.1	174.0	4.2	40.9
50 TO 99 EMPLOYEES	108	7.6	58.3	5.9	11.8	37.9	122.8	94.9	214.8	5.3	41.6
100 TO 249 EMPLOYEES	102	16.3	129.0	12.9	25.9	86.2	288.2	221.0	497.5	17.5	95.4
250 TO 499 EMPLOYEES	47	15.9	121.8	12.6	26.4	83.6	246.9	169.2	410.3	10.9	79.1
500 TO 999 EMPLOYEES	20	13.6	121.5	10.1	20.1	80.0	266.8	173.5	432.5	14.1	90.7
1,000 TO 2,499 EMPLOYEES	15	37.5	401.1	30.3	62.3	299.9	946.4	478.8	1 407.7	36.1	172.2
2,500 EMPLOYEES OR MORE.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	317	.9	7.5	.8	1.4	5.1	18.5	12.9	31.4	.8	5.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3411	METAL CANS										
	ENTIRE INDUSTRY	396	68.5	740.7	58.7	123.7	611.3	1 815.8	2 711.9	4 510.8	138.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	359	58.2	634.3	49.9	105.3	525.0	1 592.3	2 355.3	3 932.6	119.0
34111	STEEL CANS AND TINWARE END PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	301	59.4	643.3	51.0	107.2	532.5	1 597.2	2 361.6	3 950.0	104.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	275	51.7	560.7	44.4	93.4	464.2	1 418.7	2 074.1	3 483.6	90.2
34112	ALUMINUM CANS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	32	8.5	92.1	7.2	15.5	74.7	207.1	338.4	537.3	31.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	25	6.0	70.1	5.1	11.2	58.1	165.7	271.0	430.7	26.9
3412	METAL BARRELS, DRUMS, AND PAILS										
	ENTIRE INDUSTRY	157	10.2	98.9	8.1	16.7	71.2	188.8	273.5	461.3	8.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	133	7.1	63.8	5.6	11.2	45.7	130.1	188.0	317.2	5.9
34121	STEEL PAILS (12-GAL. CAPACITY AND UNDER) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	26	2.0	18.6	1.7	3.6	13.9	40.0	46.1	85.9	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34122	STEEL SHIPPING BARRELS AND DRUMS (OVER 12 GALLON) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	73	7.0	70.2	5.5	11.3	50.4	126.1	205.1	330.7	5.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	58	4.6	42.6	3.6	7.1	30.5	84.2	136.7	220.4	3.5
34123	ALL OTHER METAL BARRELS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	14	.8	6.6	.6	1.3	4.5	16.3	15.5	31.4	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3421	CUTLERY										
	ENTIRE INDUSTRY	134	13.4	102.6	10.9	22.3	73.0	322.3	112.9	427.5	11.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	128	12.0	89.9	9.8	20.2	64.6	290.6	96.9	378.6	10.5
34211	CUTLERY, SCISSORS, SHEARS, TRIMMERS, AND SNIPS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	69	9.0	64.1	7.5	15.2	48.1	122.0	66.6	183.4	3.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	61	8.1	56.8	6.9	13.8	43.0	106.0	56.1	157.1	2.7
34212	RAZOR BLADES AND RAZORS, EXCEPT ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	6	4.0	35.1	3.0	6.3	22.7	190.7	42.8	231.0	8.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3423	HAND AND EDGE TOOLS, NEC										
	ENTIRE INDUSTRY	626	39.3	343.0	31.1	62.0	240.7	780.0	473.3	1 233.1	33.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	574	31.4	267.1	25.1	49.6	190.7	637.1	375.1	998.4	27.3
34231	MECHANICS' HAND SERVICE TOOLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	133	20.2	180.8	15.9	32.4	126.4	405.3	269.7	662.0	20.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	101	14.6	127.8	11.6	23.8	91.9	310.6	197.6	501.3	14.4
34232	EDGE TOOLS, HAND OPERATED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	81	5.2	50.2	4.1	8.3	34.9	110.9	52.3	162.6	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	62	2.5	21.7	2.0	4.0	16.5	41.5	18.2	59.4	.8
34233	FILES, RASPS, FILE ACCESSORIES, OTHER HANDTOOLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	91	10.8	88.6	8.8	16.8	62.9	214.9	121.1	331.0	7.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	68	6.4	50.3	5.3	10.4	37.5	125.6	68.4	192.4	4.0
3425	HANDSAWS AND SAW BLADES										
	ENTIRE INDUSTRY	91	6.6	56.7	4.9	10.0	37.5	127.5	70.6	194.3	6.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	82	4.7	41.4	3.5	7.3	26.8	88.5	43.9	130.7	5.0
3429	HARDWARE, NEC										
	ENTIRE INDUSTRY	1 054	100.2	903.9	79.1	160.3	634.1	2 026.2	1 265.7	3 243.8	91.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	917	78.6	721.0	62.7	126.0	513.1	1 649.2	1 002.5	2 617.9	72.9
34292	FURNITURE HARDWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	61	7.7	56.8	6.3	12.6	40.0	109.9	84.0	190.1	5.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	48	5.3	37.1	4.4	8.8	27.0	77.0	55.0	128.1	4.2
34293	VACUUM AND INSULATED BOTTLES, JUGS, AND CHESTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	7	3.4	27.9	2.5	4.9	17.6	60.8	37.8	95.5	4.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34294	BUILDERS' HARDWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	222	37.1	309.4	28.8	58.4	209.7	667.8	352.4	998.7	38.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	183	31.7	262.9	24.7	49.9	179.2	576.5	297.8	856.0	34.5
34296	MOTOR VEHICLE HARDWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	50	28.0	312.1	23.6	48.9	240.9	758.9	465.3	1 218.3	23.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	40	24.4	281.2	20.4	41.3	214.7	694.4	435.2	1 124.5	20.0
34297	OTHER TRANS. EQUIP. HARDWARE, EXC. VEHICLE HWDWR (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	85	5.7	51.6	4.2	8.3	32.3	102.1	68.9	166.6	6.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	63	2.8	27.1	2.0	4.2	16.5	57.8	41.8	96.9	1.7
34298	OTHER HARDWARE, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	151	13.1	105.9	9.9	19.7	68.4	228.2	197.2	417.8	9.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	122	9.1	72.0	7.0	14.0	47.8	152.2	116.8	264.8	7.0

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
						Col. B Col. B & C				Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3411	Metal cans.....1972..	4,510.8	4,181.3	151.7	177.8	96	4,224.4	4,181.3	43.1	99
	.....1967..	2,890.6	2,533.9	276.4	80.3	90	2,585.7	2,533.9	51.8	98
3412	Metal barrels, drums, and pails.....1972..	461.3	438.2	13.3	9.8	97	509.4	438.2	71.2	86
	.....1967..	370.7	331.4	28.8	10.5	92	378.2	331.4	46.8	88
3421	Cutlery.....1972..	427.5	379.0	35.5	13.0	91	403.9	379.0	24.9	94
	.....1967..	378.5	293.5	77.2	7.8	79	308.9	293.5	15.4	95
3423	Hand and edge tools, n.e.c.....1972..	1,233.1	979.4	118.6	135.1	89	1,114.0	979.4	134.6	88
	.....1967..	813.5	661.1	51.1	101.3	93	775.1	661.1	114.0	85
3425	Handsaws and saw blades.....1972..	194.3	154.5	26.8	13.0	85	201.8	154.5	47.3	77
	.....1967..	154.3	112.8	28.8	12.7	80	138.0	112.8	25.2	82
3429	Hardware, n.e.c.....1972..	3,243.8	2,923.0	190.3	130.5	94	3,099.9	2,923.0	176.9	94
	.....1967..	2,368.3	2,073.6	202.4	92.3	91	2,188.2	2,073.6	114.6	95

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Metal cans (SIC 3411)	Metal barrels, drums, and pails (SIC 3412)	Cutlery (SIC 3421)	Hand and edge tools, n.e.c. (SIC 3423)	Handsaws and saw blades (SIC 3425)	Hardware, n.e.c. (SIC 3429)	All other industries
	Total shipments and miscellaneous receipts.....	(X)	4,510.8	461.3	427.5	1,233.1	194.3	3,243.8	(X)
3411-	Metal cans.....	4,224.4	4,181.3	(5-10)	-	-	-	-	(20-50)
34111	Steel cans and tinware end products.....	4,202.2	4,160.8	(5-10)	-	-	-	-	(20-50)
34112	Aluminum cans.....								
34110	Metal cans, n.s.k.....	22.2	20.5	-	-	-	-	-	1.7
3412-	Metal barrels, drums, and pails.....	509.4	17.9	438.2	-	-	-	(under 2)	(50-100)
34121	Steel pails (12-gallon capacity and under).....	153.0	16.5	116.7	-	-	-	-	19.8
34122	Steel shipping barrels and drums (over 12-gallons).....	292.1	(under 2)	277.0	-	-	-	-	(10-20)
34123	All other metal barrels.....	52.1	(under 2)	32.5	-	-	-	(under 2)	18.7
34120	Metal barrels, drums, and pails, n.s.k.....	12.2	-	12.1	-	-	-	-	(under 2)
3421-	Cutlery.....	403.9	-	-	379.0	15.3	(under 2)	(under 2)	(5-10)
34211	Cutlery, scissors, shears, trimmers and snips.....	183.3	-	-	159.5	15.3	(under 2)	(under 2)	6.5
34212	Razor blades and razors, except electric.....	207.2	-	-	206.1	-	-	(under 2)	(under 2)
34210	Cutlery, n.s.k.....	13.4	-	-	13.4	-	-	-	-
3423-	Hand and edge tools, n.e.c.....	1,114.0	-	-	7.1	979.4	19.9	(2-5)	102.7
34231	Mechanics' hand service tools.....	601.2	-	-	(2-5)	529.3	(2-5)	4.0	62.1
34232	Edge tools, hand operated.....	160.1	-	-	(2-5)	121.3	(10-20)	(under 2)	18.7
34233	Files, rasps, file accessories, and other handtools..	274.7	-	-	(under 2)	252.8	1.0	(under 2)	19.9
34230	Hand and edge tools, n.e.c., n.s.k.....	78.0	-	-	-	76.0	-	-	2.0
3425-	Handsaws, saw blades, and saw accessories.....	201.8	-	-	(under 2)	(5-10)	154.5	-	38.1
3429-	Hardware, n.e.c.....	3,099.9	-	-	-	(2-5)	(205)	2,923.0	170.7
34292	Furniture hardware.....	205.0	-	-	-	-	-	197.1	7.9
34293	Vacuum and insulated bottles, jugs, and chests.....	85.4	-	-	-	-	-	(50-100)	(10-20)
34294	Builders hardware.....	928.3	-	-	-	(under 2)	(under 2)	897.1	28.2
34296	Motor vehicle hardware.....	1,180.3	-	-	-	-	-	1,131.2	49.1

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Metal cans (SIC 3411)	Metal barrels, drums, and pails (SIC 3412)	Cutlery (SIC 3421)	Hand and edge tools, n.e.c. (SIC 3423)	Handsaws and saw blades (SIC 3425)	Hardware, n.e.c. (SIC 3429)	All other industries
	Total shipments and miscellaneous receipts--Continued								
3429-	Hardware, n.e.c.--Continued								
34297	Other transportation equipment hardware, except motor vehicle hardware.....	175.6	-	-	-	-	(under 2)	146.4	(20-50)
34298	Other hardware, n.e.c.....	393.9	-	-	-	(under 2)	(under 2)	355.7	37.0
34290	Hardware, n.e.c., n.s.k.....	131.4	-	-	-	1.3	-	125.2	4.9
	Other product shipments by 4-digit product group:								
2514	Metal household furniture.....	(X)	-	-	-	-	-	2.1	(X)
2542	Metal partitions and fixtures.	(X)	-	-	-	-	-	(2-5)	(X)
2655	Fiber cans, drums, and similar products.....	(X)	46.1	(2-5)	-	-	-	-	(X)
2751	Commercial printing, letterpress.....	(X)	(5-10)	-	-	(under 2)	-	-	(X)
2752	Commercial printing, lithographic.....	(X)	27.1	(under 2)	-	-	-	-	(X)
2844	Toilet preparations.....	(X)	-	-	(2-5)	-	-	-	(X)
3011	Tires and inner tubes.....	(X)	(Under 2)	-	-	-	-	(2-5)	(X)
3079	Miscellaneous plastics products.....	(X)	2.3	(under 2)	-	(under 2)	-	11.5	(X)
3354	Aluminum extruded products....	(X)	(5-10)	-	-	-	-	-	(X)
3433	Heating equipment, except electric.....	(X)	-	-	-	(2-5)	-	.6	(X)
3442	Metal doors, sash and trim....	(X)	-	-	-	(under 2)	-	5.0	(X)
3443	Fabricated platework (boiler shops).....	(X)	-	(under 2)	-	(2-5)	-	(under 2)	(X)
3462	Iron and steel forgings.....	(X)	-	-	-	12.9	-	(under 2)	(X)
3466	Crowns and closures.....	(X)	22.7	-	-	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	(5-10)	(under 2)	-	1.5	(under 2)	10.1	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	-	-	-	-	(5-10)	(X)
3494	Valves and pipe fittings.....	(X)	-	-	-	(under 2)	-	(10-20)	(X)
3495	Wire springs.....	(X)	-	-	-	-	-	(2-5)	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	(under 2)	-	-	-	2.6	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(5-10)	(under 2)	-	5.5	-	3.8	(X)
3535	Conveyors and conveying equipment.....	(X)	-	-	-	-	-	(2-5)	(X)
3537	Industrial trucks and tractors.....	(X)	-	-	-	(under 2)	-	5.7	(X)
3541	Machine tools, metal cutting type.....	(X)	-	-	(under 2)	(5-10)	(under 2)	(2-5)	(X)
3542	Machine tools, metal forming type.....	(X)	(2-5)	-	-	-	-	(under 2)	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	-	-	-	22	-	(20-50)	(X)
3545	Machine tool accessories.....	(X)	-	-	-	6.3	-	-	(X)
3546	Power-driven handtools.....	(X)	-	-	-	2.6	(under 2)	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	-	(under 2)	-	15.8	-	(under 2)	(X)
3563	Air and gas compressors.....	(X)	-	-	-	(2-5)	-	-	(X)
3589	Service industry machinery, n.e.c.....	(X)	-	-	(under 2)	(under 2)	-	2.5	(X)
3622	Industrial controls.....	(X)	-	-	-	(under 2)	-	(5-10)	(X)
3634	Electric housewares and fans..	(X)	-	-	(10-20)	(under 2)	-	-	(X)
3647	Vehicular lighting equipment..	(X)	-	-	-	-	-	(2-5)	(X)
3677	Electronic coils and transformers.....	(X)	-	-	-	-	-	(2-5)	(X)
3714	Motor vehicle parts and accessories.....	(X)	(Under 2)	-	-	3.5	-	(2-5)	(X)
3811	Engineering and scientific instruments.....	(X)	-	-	-	(over 2)	-	(under 2)	(X)
3841	Surgical and medical instruments.....	(X)	-	-	(2-5)	(under 2)	-	-	(X)
3914	Silverware and plated ware....	(X)	-	-	(2-5)	-	-	-	(X)
3944	Games, toys, and children's vehicles.....	(X)	-	-	-	-	-	(2-5)	(X)
3964	Needles, pins and fasteners...	(X)	-	-	-	-	-	(5-10)	(X)
3999	Manufacturing industries, n.e.c.....	(X)	(Under 2)	-	(2-5)	(under 2)	-	(under 2)	(X)
	Miscellaneous receipts, total...	(X)	177.8	9.8	13.0	135.1	13.0	130.5	(X)
	Contract work.....	(X)	9.0	.6	(D)	5.7	1.2	11.5	(X)
	Sales of scrap and refuse.....	(X)	44.4	2.3	.8	1.7	.1	15.6	(X)
	Receipts for repair work.....	(X)	-	-	(Z)	7.7	1.3	.6	(X)
	Other miscellaneous receipts..	(X)	3.9	2.1	(D)	3.6	.3	4.5	(X)
	Resales.....	(X)	120.5	4.8	11.2	116.4	10.1	86.8	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued	
3411-	2023 Condensed and evaporated milk.....	(2-5)	3425	3541 Machine tools, metal cutting types.....	(2-5)
	2037 Frozen fruits, and vegetables.....	(2-5)		3545 Machine tool accessories.....	(5-10)
	2086 Bottled and canned soft drinks.....	(10-20)		3546 Power-driven hand tools.....	17.4
	2899 Chemical preparations, n.e.c.....	(2-5)		3699 Electrical equipment and supplies, n.e.c.....	(5-10)
	3079 Miscellaneous plastics products.....	(2-5)			
	3465 Automotive stampings.....	(2-5)	3429	3079 Miscellaneous plastics products.....	2.6
3412-	2655 Fiber cans, drums, and similar products.....	(2-5)		3231 Products of purchased glass.....	(2-5)
	2911 Petroleum refining.....	(5-10)		3432 Plumbing fittings and brass goods.....	(2-5)
	3441 Fabricated structural metal.....	(5-10)		3442 Metal doors, sash, and trim.....	7.2
	3444 Sheet metalwork.....	(2-5)		3452 Bolts, nuts, rivets, and washers.....	3.0
	3465 Automotive stampings.....	(10-20)		3465 Automotive stampings.....	8.6
	3469 Metal stampings, n.e.c.....	6.6		3469 Metal stamping, n.e.c.....	6.7
	3639 Household appliances, n.e.c.....	(5-10)		3494 Valves and pipe fittings.....	4.6
3423-	2499 Wood products, n.e.c.....	(5-10)		3495 Wire springs.....	(2-5)
	3322 Malleable iron foundries.....	(5-10)		3499 Fabricated metal products, n.e.c.....	2.7
	3469 Metal stampings, n.e.c.....	7.2		3535 Conveyors and conveying equipment.....	(10-20)
	3494 Valves and pipe fittings.....	(5-10)			
	3499 Fabricated metal products, n.e.c.....	(5-10)	3537	Industrial trucks and tractors.....	2.8
	3536 Hoists, cranes, and monorails.....	(2-5)		3545 Machine tool accessories.....	(2-5)
	3542 Machine tools, metal forming types.....	(5-10)		3561 Pumps and pumping equipment.....	3.1
	3545 Machine tool accessories.....	10.8		3585 Refrigeration and heating equipment.....	(10-20)
	3546 Power-driven hand tools.....	6.8		3586 Measuring and dispensing pumps.....	(2-5)
	3569 General industrial machinery, n.e.c.....	6.6		3592 Carburetors, pistons, rings, valves.....	(10-20)
	3613 Switchgear and switchboard apparatus.....	(2-5)		3645 Residential lighting fixtures.....	(2-5)
	3644 Noncurrent-carrying wiring devices.....	(2-5)		3647 Vehicular lighting equipment.....	(20-50)
	3714 Motor vehicle parts and accessories.....	(5-10)		3662 Radio and TV communication equipment.....	(2-5)
	3799 Transportation equipment, n.e.c.....	(2-5)		3714 Motor vehicle parts and accessories.....	12.8
				3728 Aircraft equipment, n.e.c.....	(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars).

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3411- --	METAL CANS, TOTAL.....		(X)	4,224.4	(X)	2,585.7
34111 --	Steel Cans and Tinware End Products, Including Ice Cream Cans But Excluding Cooking and Kitchen Utensils.....		(X)	14,202.2	(X)	12,575.7
34111 10	Steel Cans: ²					
	As reported in the census of manufactures.....		(X)	14,197.3	(X)	12,573.5
	As reported in Current Industrial Reports series M-34D, "Metal Cans." (See table 6A-2 for detailed data on a product packed basis.).	1,000 base boxes of metal ³ .	140,020	14,048.0	126,141	2,332.4
34111 91	Tinware and products, including ice cream cans but excluding cooking and kitchen utensils.....		(X)	4.9	(X)	2.2
34112 00	Aluminum cans: ²					
	As reported in the census of manufactures.....		(X)	(¹)	(X)	(¹)
	As reported in Current Industrial Reports series M-34D, "Metal Cans." (See table 6A-2 for detailed data on a product packed basis.).	1,000 base boxes of metal ³ .	29,368	(¹)	7,839	204.4
34110 00	Metal cans, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	16.9	(X)	8.3
34110 02	Metal cans, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	5.3	(X)	1.7

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3412- --	METAL BARRELS, DRUMS, AND PAILS.....		(X)	509.4	(X)	378.2
34121 --	Steel Pails (12-Gallon Capacity and Under): ⁵					
34121 00	As reported in census of manufactures.....		(X)	153.0	(X)	111.6
	As reported on Census Monthly Form 34K, "Steel Shipping Barrels, Drums, and Pails".....	1,000 units...	106,368	135.5	87,674	(NA)
	For sale.....	...do.....	102,202	(NA)	84,310	(NA)
	For own use.....	...do.....	4,166	(NA)	3,364	(NA)
	By type of head construction:					
	Full removable head.....	...do.....	76,864	88.0	66,825	(NA)
34121 21	Straight side.....	...do.....	26,141	35.4	33,622	(NA)
	Tapered or semitapered:					
34121 22	11-1/4 inch diameter.....	...do.....	43,603	45.0	21,919	(NA)
34121 23	All other diameters.....	...do.....	7,120	7.7	11,284	(NA)
	Tight head, semitapered.....	...do.....	29,504	47.5	20,849	(NA)
34121 24	Standard.....	...do.....	22,544	37.9	15,773	(NA)
34121 25	Stacking dome.....	...do.....	4,236	6.6	3,158	(NA)
34121 26	Kerosene type.....	...do.....	2,724	3.0	1,918	(NA)
	By type of lining:					
34121 31	Lined pails.....	...do.....	42,691	(NA)	27,088	(NA)
34121 30	Unlined pails.....	...do.....	63,675	(NA)	60,586	(NA)
	By capacity:					
34121 37	Capacities other than 5-gallon.....	...do.....	18,235	(NA)	22,472	(NA)
	5-gallon pails.....	...do.....	88,133	(NA)	65,202	(NA)
34121 41	24 gage and heavier.....	...do.....	16,000	(NA)	15,340	(NA)
34121 42	26 gage.....	...do.....	31,052	(NA)	28,560	(NA)
34121 43	28/26 gage.....	...do.....	11,732	(NA)	9,495	(NA)
34121 44	28 gage.....	...do.....	29,349	(NA)	3,383	(NA)
34121 45	29 gage.....	...do.....			8,424	(NA)
34122 --	Steel Shipping Barrels (Over 12-Gallon Capacity): ⁶					
34122 00	As reported in census of manufactures.....		(X)	292.1	(X)	212.6
	As reported on Census Monthly Form 34K, "Steel Shipping Barrels, Drums, and Pails".....	1,000 units...	41,067	274.9	33,325	(NA)
	For sale.....	...do.....	37,972	(NA)	33,325	(NA)
	For own use.....	...do.....	222	(NA)		
	By size (diameter):					
	14-inch diameter, all gages.....	...do.....	4,304	13.5	4,060	(NA)
34122 21	Tight head.....	...do.....	775	3.3	676	(NA)
34122 22	Open head, full or partial.....	...do.....	3,529	10.1	3,384	(NA)
	All other diameters.....	...do.....	36,763	261.4	29,265	(NA)
	20 gage and heavier.....	...do.....	30,134	234.8	21,513	(NA)
	55 to 57 gallon:					
	18 gage and heavier:					
34122 23	Tight head.....	...do.....	10,851	86.0	10,053	(NA)
34122 24	Open head.....	...do.....	3,231	30.3	2,410	(NA)
	20-gage body with 18-gage head:					
34122 25	Tight head.....	...do.....	9,359	67.8	5,506	(NA)
34122 26	Open head.....	...do.....	2,044	15.2	681	(NA)
34122 28	30 to 35 gallon tight head and full open head.....	...do.....	2,429	15.8	1,984	(NA)
34122 29	All other capacities tight head and full open head, including 35 to 57 gallon, 20 gage.....	...do.....	2,220	19.8	879	(NA)
	Lighter than 20 gage.....	...do.....	6,629	26.6	7,752	(NA)
	22 to 26 gage, welded and lockside seam construction:					
34122 31	Tight head.....	...do.....	829	4.9		
34122 32	Open head, full or partial.....	...do.....	4,143	15.4	5,296	(NA)
34122 33	28 and 30 gage, all types.....	...do.....	1,657	6.2	2,456	(NA)
	By type of construction:					
34122 45	Unlined drums.....	...do.....	29,530	(NA)	27,778	(NA)
	Lined drums.....	...do.....	11,537	(NA)	5,547	(NA)
34122 41	14-inch diameter, all gages.....	...do.....				
34122 42	20 gage and heavier, except 14-inch diameter.....	...do.....	11,537	(NA)	5,547	(NA)
34122 43	Lighter than 20 gage, except 14-inch diameter.....	...do.....				
34123 --	All Other Metal Barrels, Including Beer Barrels and Fluid Milk Shipping Containers.....		(X)	52.1	(X)	45.5
34123 13	Metal fluid milk shipping and delivery containers (except crates)					
34123 19	All other metal barrels, including parts for metal barrels and pails.....		(X)	52.1	(X)	45.5
34120 00	Metal barrels, drums, and pails, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	10.6	(X)	7.4
34120 02	Metal barrels, drums, and pails, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	1.6	(X)	1.1

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3421- --	CUTLERY, TOTAL.....	403.9	308.9
34211 --	Cutlery, Scissors, Shears, Trimmers, and Snips.....	183.3	121.0
34211 11	Table cutlery (knives, forks, spoons, etc., for serving and eating food, with handles of materials other than metal, including carving sets with handles of material other than metal, excluding blades sold separately).....	12.8	17.6
34211 21	Kitchen cutlery.....	28.9	18.3
34211 41	Pocket knives and other folding-blade knives ⁷	29.7	18.7
34211 53	Scissors and shears, including household types, barber shears, pinking and tailoring shears, etc., but excluding manicure, pedicure, surgical, and types reported in all other scissors and shears....	30.0	17.6
34211 57	Metal-cutting shears, including aviation and tinners' snips, BX, and wire filament cutters.....	16.4	21.6
34211 59	All other scissors and shears, including hedge and grass shears and pruners.....	21.0	14.8
34211 61	Manicure and pedicure scissors and implements.....	18.8	10.2
34211 98	Other cutlery, including butchers' and meatpacking cutlery.....	22.3	2.0
34211 00	Cutlery, scissors, shears, trimmers, and snips, n.s.k.....	3.4	
34212 --	Razor Blades and Razors, Except Electric.....	207.2	177.1
34212 11	Safety razors.....		
34212 53	Razor blades: Stainless steel.....	207.2	177.1
34212 55	Carbon and alloy steel.....		
34212 00	Razor blades and razors, except electric, n.s.k.....		
34210 00	Cutlery, n.s.k., for companies with 10 employees or more. (See note.).....	10.2	9.1
34210 02	Cutlery, n.s.k., for companies with less than 10 employees. (See note.).....	3.2	1.7

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3423- --	HAND AND EDGE TOOLS, N.E.C., TOTAL.....		(X)	1,114.0	(X)	775.1
34231 --	Mechanics' Hand Service Tools.....		(X)	601.2	(X)	391.5
34231 11	Pliers.....	Million units.	(NA)	50.9	(NA)	46.1
34231 21	Ball peen hammers.....	..do.....	6.5	6.8	3.2	4.9
34231 33	Wrenches: Socket.....	..do.....	105.6	83.5	78.1	46.4
34231 35	Flat (open end and combination open end and box).....	..do.....	46.9	60.0	38.0	31.0
34231 37	Adjustable.....	..do.....	9.3	18.9	19.8	35.7
34231 39	All other.....	..do.....	41.5	68.3	24.4	23.8
34231 41	Screwdrivers.....	..do.....	81.8	45.2	108.0	38.3
34231 51	Automobile jacks, mechanical, excluding hydraulic and pneumatic.....	..do.....	12.4	39.1	7.6	24.5
34231 98	Other mechanics' hand service tools.....	..do.....	(NA)	195.3	(X)	117.9
34231 00	Mechanics' hand service tools, n.s.k.....	..do.....	(X)	33.2	(X)	22.9
34232 --	Edge Tools, Hand Operated.....		(X)	160.1	(X)	127.8
34232 31	Axes, adzes, and hatchets.....		(X)	10.6	(X)	6.6
34232 51	Cutting dies, for use in cutting cloth, paper, leathers, etc., excluding dies for cutting metal.....		(X)	26.8	(X)	22.5
34232 56	Machine knives, except metalcutting: Veneer knives and chipper knives.....		(X)	9.5	(X)	17.5
34232 58	All other machine knives.....		(X)	15.8		
34232 61	Can openers, except electric can openers.....		(X)	(⁸)	(X)	6.7
34232 71	Auger bits.....	Million units.	(X)	(⁸)	(NA)	5.9
34232 83	Chisels.....	..do.....	13.7	10.7	10.4	8.3
34232 81	Planes.....		(X)	75.0	(X)	54.5
34232 98	Other edge tools, including agricultural edged hand tools.....		(X)	11.7	(X)	5.8
34232 00	Edge tools, hand operated, n.s.k.....		(X)			
34233 --	Files, Rasps, and File Accessories and Other Handtools.....		(X)	274.7	(X)	190.5
34233 11	Shovels, spades, scoops, telegraph spoons, and scrapers.....	Million units.	14.6	38.3	12.1	27.4
34233 21	Light forged hammers, under 4 pounds, excluding ball peen hammers.....	..do.....	7.9	18.1	5.1	9.7
34233 31	Heavy forged tools, sledges (4 pounds and over), picks, pick mattocks, and mauls.....	..do.....	5.5	16.5	1.9	5.5
34233 41	Steel goods (forks, hoes, rakes, weeders, etc.).....	..do.....	17.1	31.4	20.3	25.6
34233 65	Woodworking and metalworking files and rasps, including precision files.....	..do.....	(X)	(⁹)	(X)	(⁹)
34233 81	Soldering irons (electric).....	..do.....	3.2	15.4	2.0	10.8
34233 98	Other hand tools, except edge tools.....	..do.....	(X)	143.8	(X)	107.6
34233 00	Files, rasps, and file accessories and other handtools, n.s.k....	..do.....	(X)	11.2	(X)	3.9
34230 00	Hand and edge tools, except machine tools and handsaws, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.)		(X)	60.1	(X)	54.4
34230 02	Hand and edge tools, except machine tools and handsaws, n.e.c., n.s.k., for establishments with less than 10 employees (See note.).....		(X)	17.9	(X)	10.9

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3425- --	HANDSAWS AND SAW BLADES, TOTAL.....		(X)	201.8	(X)	138.0
	Handsaws, Saw Blades, and Saw Accessories:					
	Powersaw blades:					
	Woodworking:					
	Circular:					
34250 11	Solid tooth ¹⁰		(X)	30.0	(X)	17.0
34250 13	Inserted tooth.....		(X)	10.7	(X)	3.0
	Band:					
34250 15	Under 2 inches.....	Million ft....	11.8	2.5	(¹¹)	(¹¹)
34250 17	2 inches and over.....	...do.....	.7	4.1	.7	4.2
34250 18	Teeth for inserted saws, sold separately.....		(X)	4.7	(X)	4.3
34250 19	All other woodworking powersaw blades (scroll, jig, etc.)...	Million ft....	(NA)	26.3	(NA)	¹¹ 17.2
	Metalworking:					
34250 31	Circular.....	Million units.	.1	6.5	(NA)	7.3
34250 35	Hack (power only).....	...do.....	2.7	6.7	3.5	7.2
34250 36	Band (flexible back, spring-temper metalcutting and high-speed metalcutting.).....	Million ft....	121.9	45.7	115.2	27.5
34250 39	Other metalworking saw blades (saber, reciprocating, etc.)..		(X)	2.2	(Z)	2.5
	Hand-operated saws:					
34250 43	Hacksaw blades (hand only).....	Million units.	58.0	13.1	52.1	10.4
34250 45	Carpenter crosscuts and rip-saws.....	...do.....	2.5	9.8	2.0	5.7
34250 49	Other handsaws (heavy handsaws, including crosscut, buck, miter, coping, pruning, compass, etc., including handsaw frames and handsaw blades sold together or handsaw blades sold separately).....		(X)	23.7	(X)	18.1
34250 00	Handsaws, saw blades, and accessories, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	14.4	(X)	12.6
34250 02	Handsaws, saw blades, and accessories, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	1.4	(X)	.9
1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972		1967		
3429- --	HARDWARE, N.E.C., TOTAL.....			3,099.9	2,188.2	
34292 --	Furniture Hardware.....			205.0	120.9	
34292 13	Rotating and tilting fixtures and bases.....			34.0	25.2	
34292 15	Furniture hardware, including drawer pulls, slides, handles, etc., but excluding casters.....			104.3	57.3	
34292 53	Furniture casters.....			51.3	30.9	
34292 55	Other furniture protective devices, including slides, glides, furniture rests, and desk leg cups.....			9.2	5.0	
34292 00	Furniture hardware, n.s.k.....			6.2	2.5	
34293 --	Vacuum and Insulated Bottles, Jugs, and Chests.....			85.4	55.9	
34293 15	Vacuum (air-evacuated) bottles, pitchers, servers, etc.....			58.1		
34293 17	Insulated (portable and other than air-evacuated) picnic jugs, picnic chests, coolers, etc., except those made principally of plastics.....			27.3	55.9	
34293 00	Vacuum and insulated bottles, jugs, and chests, n.s.k.....			-	(NA)	
34294 --	Builders' Hardware.....			928.3	593.4	
34294 11	Padlocks.....			59.6	39.7	
	Doorlocks, locksets, and lock trim:					
34294 21	Cylindrical types.....			154.5	96.2	
34294 22	Bored types.....			72.1	25.8	
34294 24	All other types.....			19.6	9.8	
34294 25	Night latches and deadlocks.....			18.0	7.9	
34294 27	Emergency exit devices (anti-panic devices).....			20.1	13.6	
34294 33	Screen and storm door hardware, including pneumatic closers.....			23.1	14.2	
34294 35	Miscellaneous sash, screen, and shelf hardware (window hardware, transom hardware, door pulls and bolts, etc.).....			76.7	53.4	
34294 41	Door controls (closers and checking devices, including floor types but excluding screen and storm door closers).....			51.6	43.1	
34294 51	Hinges and butts, including spring hinges but excluding cabinet hinges.....			79.8	49.7	
34294 00						
34294 63	Cabinet hardware, including cabinet hinges but excluding cabinet locks.....			94.5	42.9	
34294 65	Miscellaneous locking devices, including cabinet locks.....			29.3	10.4	
34294 71	Hangers, tracks, and related items, including over head door hardware (except sliding and folding door hardware, residential and commercial).....			54.3	54.5	
34294 73	Sliding and folding door hardware (residential and commercial).....			27.2	19.8	
34294 81	Door holders and stops (overhead, surface, and concealed) floor and wall mounted.....			8.1	92.7	
34294 98	Other builders' hardware.....			104.4		
34294 00	Builders' hardware, n.s.k.....			35.4	19.7	
34296 53	Motor vehicle hardware, including lock units, door and window handles, window regulators, hinges, license plate brackets, instrument panel knobs, etc. ¹²			1,180.3	^r 827.6	

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3429- --	HARDWARE, N.E.C.--Continued		
34297 --	Other Transportation Equipment Hardware, Except Motor Vehicle Hardware ¹³	175.6	^r 157.5
34297 11	Marine hardware, including shackles, rope sockets, tackle blocks, wire rope clips, clamps, and joiners' hardware.....	60.3	^r 60.1
34297 31	Aircraft hardware.....	33.4	48.4
34297 98	Other transportation equipment hardware, including railroad car hardware, but excluding motor vehicle hardware.....	60.2	33.6
34297 00	Other transportation equipment hardware, except motor vehicle hardware, n.s.k.....	21.7	15.4
34298 --	Other Hardware, N.E.C.....	393.9	335.7
34298 12	Casket and casket shell hardware.....	20.0	14.0
34298 22	Casters and wheels, for dollies and industrial handtrucks.....	61.0	56.9
34298 32	Trunk and luggage hardware, including locks.....	20.8	20.7
34298 52	Fireplace fixtures and equipment, andirons, screens, tongs, and other fire tools.....	40.2	16.7
34298 62	Hose fittings and couplings.....	121.7	104.1
34298 65	Refrigerator and stove hardware.....	18.3	17.0
34298 98	Other hardware, including saddlery and harness hardware, but excluding drapery hardware.....	97.9	87.5
34298 00	Other hardware, n.e.c., n.s.k.....	14.0	18.8
34290 00	Hardware, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....	100.0	80.9
34290 02	Hardware, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....	31.4	16.3

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. ^r Revised.

¹The 1972 census program requested separate value figures for aluminum cans and steel cans. Review indicates that the separation was not properly reported. Accordingly, these values have been combined. In 1967, data on aluminum cans and steel cans were not collected separately.

²A metal can is defined as a single-walled container constructed wholly of tinplate, terneplate, blackplate, waste plate, aluminum sheet or impact extrusions (slugs) designed for packing products. This definition excludes steel pails, defined as single-walled shipping containers having capacities of 1 to 12 gallons, inclusive, that are cylindrically constructed of steel sheet of 29 gage and heavier.

³A base box is an area of 31,360 square inches, equivalent to 112 sheets, 14" x 20" in size.

⁴The 1972 and 1967 figures represent, respectively, 5,582 and 5,149 thousand short tons of steel. The 1972 and 1967 estimates were derived respectively, by use of the factors 25.3 and 24.5 base boxes per short ton of steel.

⁵Steel shipping packages, kegs, and pails are defined as single-walled shipping containers with a range of capacity from 1 to 12 gallons inclusive, constructed of steel sheet of 29 gage and heavier. This definition does not include tin cans (packers' cans, general line cans, and beer cans), terneplate oil containers, fluid milk shipping containers, ice cream cans, gas cylinders, beer barrels, reconditioned barrels and drums, or containers not commercially usable in the transportation of commodities.

⁶Steel shipping barrels are defined as single-walled cylindrical or bilged shipping containers, with a range of capacity from 12 to 132 gallons, constructed of steel. This definition does not include tin cans (packers' cans, general line cans, and beer cans), terneplate oil containers, high and low pressure gas steel cylinders, fluid milk shipping containers, ice cream cans, or containers not commercially usable in the transportation of commodities.

⁷Quantities shipped are 23,582 and 20,411 thousand units for 1972 and 1967, respectively.

⁸Combined with product code 34232 98, "Other edge tools, including agricultural edged hand tools," to avoid disclosing figures for individual companies.

⁹Combined with product code 34233 98, "Other hand tools, except edge tools," to avoid disclosing figures for individual companies.

¹⁰Includes all types and sizes of solid-tooth circular saw blades for industrial and home workshop type circular saws as well as saw blades for portable power saws and for sawing attachments for portable handtools.

¹¹Product code 34250 15 is included with product code 34250 19, "All other woodworking powersaw blades," to avoid disclosing operations of individual companies.

¹²Includes only the value of motor vehicle hardware reported as such. It is likely that an indeterminate amount of motor vehicle hardware was reported as motor vehicle parts and classified accordingly in the Motor Vehicle Parts Industry.

¹³The 1972 and 1967 definition of this product class differ significantly, such that motor vehicle hardware has been shifted to product class 34296 in 1972.

TABLE 6A-2. Quantity and Value of Shipments of Metal Cans, by Product Packed: 1972 and 1967

1972 product code	Type of can	1972		1967 base boxes shipped
		Cans shipped	Base boxes ¹ shipped	
34110 03	METAL CANS			
	Quantity.....1,000..	77,546,487	169,388	133,980
	Value.....million dollars..	4,048.0	(X)	2,536.8
34110 07	Shipments for sale:			
	Quantity.....1,000..	61,199,828	136,993	108,839
	Value.....million dollars..	3,238.2	(X)	(NA)
34110 08	Shipments for own use:			
	Quantity.....1,000..	16,546,639	32,395	25,141
	Value.....million dollars..	809.9	(X)	(NA)
	Type of Can:			
34110 12	Fruit and fruit juices, including cans for fruit base still drinks sold as soft drinks.....1,000..	5,787,657	13,639	14,313
34110 15	Vegetable and vegetable juices.....do..	9,596,953	21,822	21,952
34110 13	Evaporated and condensed milk.....do..	1,419,780	2,404	3,337
34110 19	Other dairy products.....do..	220,172	372	728
34110 31	Meat, including poultry.....do..	1,759,605	3,667	3,803
	Steel (tinplate).....do..	1,074,182	2,734	3,258
	Aluminum.....do..	685,423	933	545
34110 41	Fish and seafood.....do..	1,720,688	3,018	2,920
34110 45	Coffee.....do..	839,378	3,595	4,162
34110 51	Lard and shortening.....do..	340,885	1,467	1,986
34110 63	Soft drink.....do..	15,265,013	31,485	14,580
	Steel (tinplate).....do..	13,532,933	24,073	13,696
	Aluminum.....do..	1,732,080	7,412	884
34110 67	Beer.....do..	22,125,832	44,951	27,537
	Steel (tinplate).....do..	15,423,162	25,753	22,041
	Aluminum.....do..	6,702,670	19,198	5,496
34110 73	Baby food, including formulas.....do..	840,009	1,460	855
34110 79	All other food, including soup.....do..	6,984,739	13,329	13,227
	Steel (tinplate).....do..	6,556,174	12,715	12,541
	Aluminum.....do..	428,565	614	686
34110 71	Pet foods.....do..	3,567,318	6,694	5,797
34110 81	Oil (open top up through 5-quart).....do..	874,614	3,095	3,056
34110 83	Paint and varnish products, including painters' supplies...do..	937,381	6,086	4,154
34110 85	Antifreeze.....do..	112,147	566	828
34110 87	Pressure packing (valve type).....do..	2,857,705	5,877	4,371
34110 89	All other nonfood.....do..	2,496,611	5,861	6,374
	Kind of Metal:			
34111 10	Steel (tinplate).....do..	67,584,185	140,020	126,141
	Tonnage equivalent.....do..	(X)	² 5,534,381	² 5,148,653
	Value of steel cans shipped.....million dollars..	³ 4,048.0	(X)	2,332.4
34112 00	Aluminum.....1,000..	10,162,282	29,368	7,839
	Value of aluminum cans shipped.....million dollars..	(³)	(X)	204.4

(X) Not applicable. (NA) Not available.

¹See table 6A-1, footnote 3, for definition.²The tonnage figures are derived by use of the factors 25.3 and 24.5 base boxes per short ton of steel in 1972 and 1967, respectively.³Data on value of aluminum cans shipped were collected separately; however, a review of these data indicates that this separation was not properly reported. Accordingly, these values have been combined.

Source: Monthly Current Industrial Reports, series M-34D, "Metal Cans."

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
STEEL AND ALUMINUM CANS AND TINWARE END PRODUCTS (34111 AND 34112)			STEEL PAILS (12-GALLON CAPACITY AND UNDER) (34121)--Continued		
United States.....	4,202.2	(NA)	South Region--Continued.....		
Northeast Region.....	843.3	(NA)	East South Central Division.....	CC	BB
New England Division.....	89.6	(NA)	Alabama.....	CC	BB
Maine.....	EE	(NA)	West South Central Division.....	EE	CC
Massachusetts.....	59.5	(NA)	Louisiana.....	BB	BB
Connecticut.....	EE	(NA)	Texas.....	CC	5.9
Middle Atlantic Division.....	753.6	(NA)	West Region.....	16.0	13.2
New York.....	GG	(NA)	Pacific Division.....	EE	13.2
New Jersey.....	375.0	(NA)	California.....	EE	EE
Pennsylvania.....	GG	(NA)			
North Central Region.....	1 479.5	(NA)	STEEL SHIPPING BARRELS AND DRUMS (OVER 12-GALLON CAPACITY) (34122)		
East North Central Division.....	1 074.6	(NA)	United States.....	292.1	212.6
Ohio.....	GG	(NA)	Northeast Region.....	77.0	59.8
Indiana.....	GG	(NA)	New England Division.....	CC	CC
Illinois.....	GG	(NA)	Massachusetts.....	AA	(NA)
Michigan.....	GG	(NA)	Connecticut.....	CC	BB
Wisconsin.....	GG	(NA)	Middle Atlantic Division.....	GG	GG
West North Central Division.....	404.9	(NA)	New York.....	CC	CC
Minnesota.....	GG	(NA)	New Jersey.....	FF	38.5
Iowa.....	CC	(NA)	Pennsylvania.....	19.5	10.8
Missouri.....	GG	(NA)	North Central Region.....	99.3	69.5
Nebraska.....	EE	(NA)	East North Central Division.....	GG	64.7
Kansas.....	EE	(NA)	Ohio.....	40.9	24.7
South Region.....	966.2	(NA)	Illinois.....	45.3	35.6
South Atlantic Division.....	GG	(NA)	Michigan.....	CC	4.4
Maryland.....	GG	(NA)	West North Central Division.....	CC	4.8
Virginia.....	GG	(NA)	Kansas.....	CC	BB
North Carolina.....	GG	(NA)	South Region.....	86.4	63.2
South Carolina.....	CC	(NA)	South Atlantic Division.....	23.3	13.2
Georgia.....	76.7	(NA)	Maryland.....	BB	(NA)
Florida.....	GG	(NA)	West Virginia.....	BB	EE
East South Central Division.....	GG	(NA)	North Carolina.....	BB	(NA)
Kentucky.....	CC	(NA)	Georgia.....	CC	(NA)
Tennessee.....	FF	(NA)	Florida.....	BB	(NA)
Alabama.....	3.4	(NA)	East South Central Division.....	13.4	8.8
Mississippi.....	FF	(NA)	Kentucky.....	BB	(NA)
West South Central Division.....	GG	(NA)	Tennessee.....	BB	BB
Arkansas.....	EE	(NA)	Alabama.....	7.0	5.4
Louisiana.....	GG	(NA)	West South Central Division.....	49.7	41.2
Oklahoma.....	AA	(NA)	Louisiana.....	23.2	17.1
Texas.....	GG	(NA)	Texas.....	26.5	24.0
West Region.....	913.2	(NA)	West Region.....	29.5	20.1
Mountain Division.....	GG	(NA)	Pacific Division.....	29.5	AA
Idaho.....	9.5	(NA)	Oregon.....	BB	AA
Colorado.....	GG	(NA)	California.....	FF	17.3
Arizona.....	BB	(NA)			
Utah.....	EE	(NA)	ALL OTHER METAL BARRELS (34123)		
Pacific Division.....	GG	(NA)	United States.....	52.1	45.5
Washington.....	GG	(NA)	Northeast Region.....	3.5	4.9
Oregon.....	FF	(NA)	Middle Atlantic Division.....	BB	4.9
California.....	631.7	(NA)	New Jersey.....	AA	BB
Hawaii.....	FF	(NA)	Pennsylvania.....	AA	AA
			North Central Region.....	24.5	16.9
STEEL PAILS (12-GALLON CAPACITY AND UNDER) (34121)			East North Central Division.....	FF	11.1
United States.....	153.0	111.6	Ohio.....	5.9	5.5
Northeast Region.....	36.4	27.0	Indiana.....	EE	BB
Middle Atlantic Division.....	FF	FF	Illinois.....	AA	AA
New York.....	BB	(NA)	West North Central Division.....	BB	5.8
New Jersey.....	18.2	15.3	Nebraska.....	BB	(NA)
Pennsylvania.....	13.9	10.3	South Region.....	19.0	BB
North Central Region.....	68.7	46.3	South Atlantic Division.....	EE	(NA)
East North Central Division.....	65.4	FF	West Virginia.....	CC	(NA)
Ohio.....	FF	14.0	South Carolina.....	CC	AA
Illinois.....	FF	26.5	East South Central Division.....	AA	AA
Wisconsin.....	BB	BB	Alabama.....	AA	AA
West North Central Division.....	3.3	AA	West South Central Division.....	BB	(NA)
Kansas.....	BB	AA	Texas.....	BB	(NA)
South Region.....	32.1	25.0	West Region.....	5.1	EE
South Atlantic Division.....	14.1	11.5	Pacific Division.....	5.1	EE
Maryland.....	AA	(NA)	California.....	5.1	EE
South Carolina.....	CC	BB			
Georgia.....	CC	BB			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CUTLERY, SCISSORS, SHEARS, TRIMMERS, AND SNIPS (34211)			MECHANICS' HAND SERVICE TOOLS (34231)--Continued		
United States.....	183.3	121.0	South Region.....	44.6	19.8
Northeast Region.....	133.2	91.9	South Atlantic Division.....	22.6	19.3
New England Division.....	GG	35.9	West Virginia.....	BB	BB
Massachusetts.....	14.0	6.3	North Carolina.....	BB	EE
Rhode Island.....	EE	EE	South Carolina.....	EE	BB
Connecticut.....	28.1	18.0	East South Central Division.....	CC	(NA)
Middle Atlantic Division.....	GG	56.0	Kentucky.....	BB	(NA)
New York.....	FF	24.7	Tennessee.....	BB	(NA)
New Jersey.....	37.9	24.0	West South Central Division.....	EE	(NA)
Pennsylvania.....	EE	7.3	Arkansas.....	EE	(NA)
North Central Region.....	27.0	15.7	West Region.....	82.4	40.1
East North Central Division.....	25.1	15.1	Mountain Division.....	16.2	7.1
Ohio.....	19.6	11.6	Colorado.....	EE	CC
Illinois.....	1.7	AA	Pacific Division.....	66.2	33.0
Michigan.....	AA	AA	Oregon.....	BB	BB
Wisconsin.....	BB	AA	California.....	GG	FF
West North Central Division.....	1.9	(NA)	EDGE TOOLS, HAND OPERATED (34232)		
Iowa.....	AA	(NA)	United States.....	160.1	127.8
South Region.....	EE	EE	Northeast Region.....	81.3	66.2
South Atlantic Division.....	8.6	CC	New England Division.....	55.6	46.1
Maryland.....	BB	AA	New Hampshire.....	1.5	AA
West Virginia.....	BB	BB	Vermont.....	CC	AA
Florida.....	1.5	(NA)	Massachusetts.....	FF	32.9
East South Central Division.....	AA	(NA)	Connecticut.....	EE	10.1
Kentucky.....	AA	(NA)	Middle Atlantic Division.....	25.6	20.1
West South Central Division.....	AA	AA	New York.....	7.2	6.6
Arkansas.....	AA	AA	New Jersey.....	9.6	5.1
West Region.....	EE	BB	Pennsylvania.....	8.8	8.5
Mountain Division.....	BB	(NA)	North Central Region.....	57.9	49.4
Colorado.....	AA	(NA)	East North Central Division.....	44.0	31.4
Pacific Division.....	8.6	BB	Ohio.....	32.9	15.8
Oregon.....	BB	(NA)	Illinois.....	9.3	11.8
California.....	CC	BB	West North Central Division.....	13.9	18.0
RAZOR BLADES AND RAZORS, EXCEPT ELECTRIC (34212)			Iowa.....	BB	AA
United States.....	207.2	(NA)	Missouri.....	EE	15.0
Northeast Region.....	GG	(NA)	South Region.....	13.9	7.5
New England Division.....	GG	(NA)	South Atlantic Division.....	11.8	CC
Massachusetts.....	GG	(NA)	Virginia.....	BB	AA
Connecticut.....	GG	(NA)	West Virginia.....	CC	BB
Middle Atlantic Division.....	EE	(NA)	East South Central Division.....	AA	(NA)
New York.....	BB	(NA)	Mississippi.....	AA	(NA)
New Jersey.....	EE	(NA)	West Region.....	7.1	4.8
South Region.....	EE	(NA)	Mountain Division.....	AA	(NA)
South Atlantic Division.....	EE	(NA)	Colorado.....	AA	(NA)
Virginia.....	EE	(NA)	Pacific Division.....	CC	BB
MECHANICS' HAND SERVICE TOOLS (34231)			Washington.....	BB	(NA)
United States.....	601.2	391.5	California.....	2.4	3.6
Northeast Region.....	207.0	149.6	FILES, RASPS, FILE ACCESSORIES AND OTHER HANDTOOLS (34233)		
New England Division.....	96.2	70.0	United States.....	274.7	190.5
Massachusetts.....	56.7	42.1	Northeast Region.....	95.3	78.8
Connecticut.....	FF	FF	New England Division.....	43.3	24.7
Middle Atlantic Division.....	110.9	79.6	Massachusetts.....	5.8	CC
New York.....	60.5	47.0	Connecticut.....	37.0	EE
New Jersey.....	11.8	12.7	Middle Atlantic Division.....	52.0	54.1
Pennsylvania.....	38.5	19.9	New York.....	16.4	26.5
North Central Region.....	267.0	182.0	New Jersey.....	13.0	5.7
East North Central Division.....	229.2	157.1	Pennsylvania.....	22.7	21.9
Ohio.....	54.9	51.4	North Central Region.....	109.4	82.0
Indiana.....	EE	CC	East North Central Division.....	93.1	77.0
Illinois.....	94.0	56.6	Ohio.....	46.6	37.6
Michigan.....	27.9	23.9	Indiana.....	15.5	18.9
Wisconsin.....	FF	EE	Illinois.....	22.9	14.0
West North Central Division.....	37.8	24.9	Michigan.....	5.7	4.8
Minnesota.....	21.6	EE	Wisconsin.....	2.4	1.7
Missouri.....	CC	BB	West North Central Division.....	16.3	5.1
Nebraska.....	EE	BB	Minnesota.....	1.3	(NA)
			Iowa.....	BB	AA
			Nebraska.....	1.4	AA
			Kansas.....	CC	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
FILES, RASPS, FILE ACCESSORIES AND OTHER HANDTOOLS (34233)--Continued			BUILDERS' HARDWARE (34294)--Continued		
South Region.....	44.9	25.1	North Central Region.....	389.6	275.0
South Atlantic Division.....	37.5	FF	East North Central Division.....	338.4	242.0
Virginia.....	AA	(NA)	Ohio.....	27.0	33.1
West Virginia.....	FF	FF	Indiana.....	22.4	16.4
North Carolina.....	AA	AA	Illinois.....	182.1	132.9
East South Central Division.....	CC	BB	Michigan.....	53.2	35.8
Mississippi.....	BB	BB	Wisconsin.....	53.7	23.7
West South Central Division.....	AA	(NA)	West North Central Division.....	51.3	33.0
West Region.....	25.1	4.5	Minnesota.....	19.1	14.1
Pacific Division.....	FF	4.5	Iowa.....	CC	BB
Washington.....	BB	(NA)	Missouri.....	FF	EE
California.....	FF	BB	South Dakota.....	BB	AA
FURNITURE HARDWARE (34292)			South Region.....	94.6	64.9
United States.....	205.0	120.9	South Atlantic Division.....	37.8	24.6
Northeast Region.....	52.3	41.2	West Virginia.....	BB	AA
New England Division.....	19.9	24.6	North Carolina.....	19.8	EE
Massachusetts.....	EE	CC	South Carolina.....	BB	AA
Connecticut.....	CC	EE	Florida.....	EE	4.9
Middle Atlantic Division.....	32.4	16.6	East South Central Division.....	43.8	36.7
New York.....	28.2	11.4	Kentucky.....	BB	AA
Pennsylvania.....	3.7	BB	Tennessee.....	FF	FF
North Central Region.....	96.6	60.2	Alabama.....	BB	BB
East North Central Division.....	88.7	GG	Mississippi.....	12.3	CC
Ohio.....	1.9	AA	West South Central Division.....	13.0	3.7
Indiana.....	EE	EE	Oklahoma.....	BB	AA
Illinois.....	37.9	29.2	Texas.....	CC	BB
Michigan.....	32.1	16.4	West Region.....	216.2	106.6
Wisconsin.....	BB	(NA)	Pacific Division.....	216.2	106.6
West North Central Division.....	8.0	AA	Oregon.....	AA	BB
Missouri.....	CC	AA	California.....	GG	103.9
Kansas.....	BB	(NA)	MOTOR VEHICLE HARDWARE (34296)		
South Region.....	35.2	12.5	United States.....	1 180.3	(NA)
South Atlantic Division.....	23.9	CC	Northeast Region.....	GG	(NA)
North Carolina.....	FF	8.9	New England Division.....	CC	(NA)
East South Central Division.....	CC	(NA)	Connecticut.....	BB	(NA)
Kentucky.....	BB	(NA)	Middle Atlantic Division.....	GG	(NA)
Tennessee.....	BB	(NA)	New York.....	GG	(NA)
West South Central Division.....	BB	BB	New Jersey.....	GG	(NA)
Arkansas.....	BB	BB	North Central Region.....	960.4	(NA)
West Region.....	20.8	6.9	East North Central Division.....	GG	(NA)
Pacific Division.....	20.8	6.9	Ohio.....	GG	(NA)
Oregon.....	CC	BB	Indiana.....	EE	(NA)
California.....	EE	BB	Illinois.....	90.9	(NA)
VACUUM AND INSULATED BOTTLES, JUGS, AND CHESTS (34293)			Michigan.....	511.8	(NA)
United States.....	85.4	(NA)	Wisconsin.....	FF	(NA)
Northeast Region.....	FF	(NA)	West North Central Division.....	BB	(NA)
New England Division.....	FF	(NA)	Iowa.....	BB	(NA)
Connecticut.....	FF	(NA)	South Region.....	EE	(NA)
North Central Region.....	30.1	(NA)	South Atlantic Division.....	BB	(NA)
East North Central Division.....	EE	(NA)	North Carolina.....	BB	(NA)
Illinois.....	EE	(NA)	East South Central Division.....	EE	(NA)
West North Central Division.....	EE	(NA)	Kentucky.....	BB	(NA)
Kansas.....	EE	(NA)	Tennessee.....	CC	(NA)
South Region.....	FF	(NA)	Alabama.....	BB	(NA)
East South Central Division.....	FF	(NA)	West Region.....	4.0	(NA)
Tennessee.....	FF	(NA)	Pacific Division.....	BB	(NA)
BUILDERS' HARDWARE (34294)			California.....	2.9	(NA)
United States.....	928.3	593.4	OTHER TRANSPORTATION EQUIPMENT HARDWARE, EXCEPT MOTOR VEHICLE HARDWARE ¹ (34297)		
Northeast Region.....	228.0	146.9	United States.....	175.6	(NA)
New England Division.....	143.8	96.5	Northeast Region.....	23.5	(NA)
New Hampshire.....	AA	BB	New England Division.....	12.1	(NA)
Massachusetts.....	EE	EE	Massachusetts.....	BB	(NA)
Connecticut.....	122.5	76.6	Connecticut.....	7.4	(NA)
Middle Atlantic Division.....	84.2	50.4	Middle Atlantic Division.....	11.4	(NA)
New York.....	38.9	23.7	New York.....	5.7	(NA)
New Jersey.....	5.2	2.1	New Jersey.....	BB	(NA)
Pennsylvania.....	40.1	24.5	Pennsylvania.....	BB	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER TRANSPORTATION EQUIPMENT HARDWARE, EXCEPT MOTOR VEHICLE HARDWARE ¹ (34297)--Continued			OTHER HARDWARE, N.E.C. (34298)--Continued		
North Central Region.....	102.9	(NA)	North Central Region.....	181.0	150.9
East North Central Division.....	89.8	(NA)	East North Central Division.....	164.5	142.0
Ohio.....	24.5	(NA)	Ohio.....	39.9	44.6
Indiana.....	14.7	(NA)	Indiana.....	35.8	FF
Illinois.....	CC	(NA)	Illinois.....	36.8	31.6
Michigan.....	22.1	(NA)	Michigan.....	FF	34.7
Wisconsin.....	FF	(NA)	Wisconsin.....	EE	EE
West North Central Division.....	13.1	(NA)	West North Central Division.....	16.5	9.0
Minnesota.....	BB	(NA)	Minnesota.....	BB	(NA)
Iowa.....	CC	(NA)	Iowa.....	7.5	BB
			Missouri.....	5.5	BB
South Region.....	9.0	(NA)	South Region.....	34.7	33.5
South Atlantic Division.....	CC	(NA)	South Atlantic Division.....	13.2	10.3
Florida.....	CC	(NA)	Virginia.....	2.3	AA
West Region.....	40.3	(NA)	West Virginia.....	CC	BB
Mountain Division.....	CC	(NA)	Georgia.....	4.7	BB
Colorado.....	BB	(NA)	East South Central Division.....	7.8	12.6
Pacific Division.....	FF	(NA)	Kentucky.....	AA	AA
Washington.....	CC	(NA)	Tennessee.....	CC	EE
California.....	29.5	(NA)	Alabama.....	AA	(NA)
OTHER HARDWARE, N.E.C. (34298)			West South Central Division.....	13.7	10.6
United States.....	393.9	335.7	Arkansas.....	CC	CC
Northeast Region.....	144.7	109.3	Texas.....	BB	AA
New England Division.....	41.6	42.6			
Massachusetts.....	5.9	6.0	West Region.....	33.6	42.0
Connecticut.....	35.0	35.5	Mountain Division.....	AA	BB
Middle Atlantic Division.....	103.1	66.5	Colorado.....	AA	BB
New York.....	44.5	31.4	Pacific Division.....	FF	FF
New Jersey.....	FF	17.5	Washington.....	BB	(NA)
Pennsylvania.....	27.3	17.7	Oregon.....	9.8	3.8
			California.....	20.4	35.0

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9

CC.....\$5.0 to \$9.9

FF.....\$20.0 to 49.9

BB.....\$2.0 to \$4.9

EE.....\$10.0 to \$19.9

GG.....\$50.0 and over

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹The 1972 and 1967 definition of this product class differ significantly, such that motor vehicle hardware has been shifted to product class 34296 in 1972. This shift out of product class 34297 represents more than 15 percent of the total shipments value at the U.S. level.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3411	Metal cans.....	4,224.4	3,818.3	3,565.6	3,198.7	2,982.5	2,585.7	2,002.2	¹ 1,762.3
34111	Steel cans and tinware end products.....	4,202.2	3,818.3	3,565.5	3,198.7	2,982.5	2,585.7	2,002.2	¹ 1,762.3
34112	Aluminum cans.....								
34110	Metal cans, n.s.k.....	22.2							
3412	Metal Barrels, Drums, and Pails.....	509.4	427.3	402.0	414.9	399.0	378.2	317.9	259.0
34121	Steel pails (12-gallon capacity and under).....	153.0	125.8	113.8	119.5	116.7	111.6	87.2	80.2
34122	Steel shipping barrels and drums (over 12 gallons).....	292.1	242.8	236.4	236.7	227.0	212.6	191.5	162.4
34123	All other metal barrels.....	52.1	51.5	48.6	(51.0)	47.8	45.5	35.9	14.7
34120	Metal barrels, drums, and pails, n.s.k.....	12.2	7.2	3.2	7.7	7.5	8.5	3.3	1.6
3421	Cutlery.....	403.9	349.3	341.2	326.5	308.5	308.9	254.3	162.2
34211	Cutlery, scissors, shears, trimmers, and snips.....	183.3	148.1	141.8	136.6	131.2	121.0	90.5	77.3
34212	Razor blades and razors, except electric.....	207.2	193.5	191.2	181.7	164.7	177.1	159.4	80.7
34210	Cutlery, n.s.k.....	13.4	(7.7)	(8.2)	(8.2)	(12.6)	10.8	4.4	4.1
3423	Hand and edge tools, n.e.c.....	1,114.0	916.5	877.1	905.8	819.7	775.1	536.1	434.2
34231	Mechanics' hand service tools.....	601.2	547.0	514.9	471.2	417.2	391.5	252.4	188.5
34232	Edge tools, hand operated.....	160.1	139.1	137.6	152.1	141.0	127.8	106.3	90.6
34233	Files, rasps, file accessories, other handtools.....	274.7	211.2	196.6	232.7	204.0	190.5	156.0	142.1
34230	Hand and edge tools, n.e.c., n.s.k.....	78.0	(19.2)	(28.0)	49.8	57.5	65.3	21.4	13.1
34250	Handsaws, saw blades, and saw accessories.....	201.8	177.4	166.6	170.2	152.1	138.0	85.0	75.6
3429	Hardware, n.e.c.....	3,099.9	2,726.1	2,278.4	2,540.4	2,403.6	2,188.2	1,663.1	1,224.1
34292	Furniture hardware.....	205.0	148.8	134.3	146.6	130.9	120.9	95.3	77.4
34293	Vacuum and insulated bottles, jugs, and chests.....	85.4	88.4	82.3	73.6	62.9	55.9	48.0	41.1
34294	Builders hardware.....	928.3	749.7	683.8	713.1	663.9	593.4	465.8	387.1
34296	Motor vehicle hardware.....	1,180.3	1,247.7	881.1	1,138.8	1,118.2	985.1	778.6	472.2
34297	Other transportation equipment hardware, except motor vehicle hardware ²	175.6							
34298	Other hardware, n.e.c.....	393.9	444.2	485.5	409.5	369.7	335.7	237.4	215.2
34290	Hardware, n.e.c., n.s.k.....	131.4	47.3	(48.4)	58.8	58.0	97.2	38.1	31.1

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²The 1972 and 1967 definition of this product class differ significantly, such that motor vehicle hardware has been shifted to product class 34296 in 1972. This shift out of product class 34297 represents more than 15 percent of the total shipments value at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3411.--METAL CANS					
	Materials, parts, containers, and supplies, total.....		(X)	2,557.9	(X)	1,713.4
	Mill shapes and forms (except castings):					
	Carbon steel:					
331018	Tinplate, terneplate, and blackplate ¹	1,000 s. tons.	5,602.7	1,550.1	5,323.4	1,170.6
331012	Sheet and strip.....	do.	63.4	17.9	(NA)	8.1
331017	Wire and wire products.....	do.	106.4	28.0		
331019	All other carbon steel mill shapes and forms.....	do.				
331020	Alloy steel (except stainless).....	do.	36.0	12.8	(NA)	2.0
	Stainless steel mill shapes and forms:					
331033	Sheet and strip.....	do.				
331050	All other.....	do.				
	Aluminum and aluminum-base alloy ¹					
335301	Sheet, plate, and foil.....	Million lb....	940.8	383.9	456.3	157.8
335008	All other aluminum mill shapes and forms (wire, rod, extruded shapes, etc.).....	do.	89.8	42.3		
285101	Paints, varnishes, lacquers, japans, and enamels.....	1,000 gallons.	35,790.9	98.1	21,738.6	55.1
260091	Paper and paperboard containers, including corrugated boxes.....		(X)	37.0	(X)	44.0
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	370.6	(X)	257.1
976000	Materials, parts, containers, and supplies, n.s.k. ²		(X)	17.2	(X)	18.7

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3412.--METAL BARRELS, DRUMS, AND PAILS					
	Materials, parts, containers, and supplies, total.....		(X)	³ 262.1	(X)	211.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331012	Sheet and strip.....	1,000 s. tons.	847.2	163.4	844.6	125.9
331018	Tinplate, terneplate, and blackplate.....	..do.....			59.5	9.7
331017	Wire and wire products.....	..do.....	89.0	18.3		
331011	Bars and bar shapes.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
331020	Alloy steel (except stainless).....	..do.....			49.5	8.5
	Stainless steel mill shapes and forms:					
331033	Sheet and strip.....	..do.....	1.8	1.1		
331050	All other.....	..do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	Million lb....	(D)	(D)		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, extruded shapes, etc.).....	..do.....	-	-	4.3	2.4
285101	Paints, varnishes, lacquers, japans, enamels, etc.....	1,000 gallons.	3,888.0	13.3	3,440.3	11.0
260091	Paper and paperboard containers, including corrugated boxes.....		(X)	(D)	(X)	1.1
970000	All other materials and components, parts, containers, and supplies consumed.....		(X)	50.9	(X)	45.4
976000	Materials, components, parts, containers, etc., n.s.k. ²		(X)	13.7	(X)	7.9
	INDUSTRY 3421.--CUTLERY					
	Materials, parts, containers, and supplies, total.....		(X)	92.3	(X)	94.4
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	5.1	1.1	3.5	.6
331012	Sheet and strip.....	..do.....	12.9	5.3	13.1	4.0
331013	Plates.....	..do.....			-	-
331017	Wire and wire products.....	..do.....	5.3	1.9	.9	.2
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	4.5	1.3		
331029	All other alloy steel mill shapes and forms.....	..do.....	.3	.2	1.3	.5
	Stainless steel:					
331033	Sheet and strip.....	..do.....	3.6	5.9		
331050	All other.....	..do.....	2.5	2.9	5.5	8.5
	Copper and copper-base alloy mill shapes and forms:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.9	.5		
335143	Plate, sheet, and strip, including military cups and discs....	..do.....			1.4	1.2
335152	Pipe and tube.....	..do.....	.8	2.5		
	Aluminum and aluminum-base alloy mill shapes and forms:					
335301	Sheet, plate, and foil.....	..do.....				
335008	All other aluminum mill shapes and forms.....	..do.....	3.9	2.2	2.2	1.3
	Castings (rough and semifinished): ⁴					
332011	Iron (gray and malleable).....	1,000 s. tons.	1.4	.7	.6	.4
332045	Steel.....	..do.....	(Z)	(Z)	(Z)	(Z)
336100	Aluminum and aluminum-base alloy.....	Million lb....	.1	.1	.1	.1
346200	Iron and steel forgings ⁴	1,000 s. tons.	1.0	.9	1.5	.9
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	58.1	(X)	71.2
976000	Materials, parts, containers, and supplies, n.s.k. ²		(X)	8.7	(X)	5.5
	INDUSTRY 3423.--HAND AND EDGE TOOLS, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	361.1	(X)	245.6
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	117.8	34.2	89.6	19.7
331012	Sheet and strip.....	..do.....	143.5	31.4	64.5	14.6
331013	Plates.....	..do.....				
331017	Wire and wire products.....	..do.....	35.7	10.5	⁵ 10.4	⁵ 3.5
331019	All other carbon steel mill shapes and forms.....	..do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3423.--HAND AND EDGE TOOLS, N.E.C.--Continued					
	Mill shapes and forms (except castings)--Continued					
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	71.6	25.5	48.5	16.5
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....	71.6	25.5	48.5	16.5
331050	All other.....	...do.....				
	Copper and copper-base alloy mill shapes and forms:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	1.3	1.2	2.1	1.6
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	.6	.6	.4	.3
335152	Pipe and tube.....	...do.....	1.3	.7	(⁶)	(⁶)
	Aluminum and aluminum-base alloy mill shapes and forms:					
335301	Sheet, plate, and foil.....	...do.....	6.8	3.3	4.5	2.8
335008	All other aluminum mill shapes and forms.....	...do.....				
	Castings (rough and semifinished): ⁴					
332011	Iron (gray and malleable).....	1,000 s. tons.	20.6	15.0	16.8	10.3
332045	Steel.....	...do.....	1.6	2.6	5.1	4.3
336100	Aluminum and aluminum-base alloy.....	Million lb....	5.7	5.8	4.2	3.6
346200	Iron and steel forgings ⁷	1,000 s. tons.	31.8	30.7	(NA)	18.9
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	149.1	(X)	⁶ 100.8
976000	Materials, parts, containers, and supplies, n.s.k. ².....	.....	(X)	50.5	(X)	48.7
	INDUSTRY 3425.--HANDSAWS AND SAW BLADES					
	Materials, parts, containers, and supplies, total.....	.....	(X)	59.5	(X)	49.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331012	Sheet and strip.....	1,000 s. tons.	15.6	7.9	6.9	6.6
331013	Plates.....	...do.....	.9	.3	1.3	.7
331011	Bars and bar shapes.....	...do.....	2.3	.8	4.9	1.5
331017	Wire and wire products.....	...do.....	1.6	.5		
331019	All other carbon steel mill shapes and forms.....	...do.....	.3	.1		
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	26.6	23.0	14.4	20.1
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....	.1	.1	14.4	20.1
331050	All other.....	...do.....				
	Copper and copper-base alloy mill shapes and forms:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(2)	(2)	(NA)	(D)
335143	Plate, sheet, and strip, including military cups and discs....	...do.....				
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy mill shapes and forms:					
335301	Sheet, plate, and foil.....	...do.....	.1	.1	(NA)	(D)
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder welded tubing, extruded shapes, etc.).....	...do.....				
	Castings (rough and semifinished): ⁴					
332011	Iron (gray and malleable).....	1,000 s. tons.	(D)	-	(NA)	(D)
332300	Steel.....	...do.....	-	-		
336100	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)		
346200	Iron and steel forgings ⁴.....	...do.....	(D)	(D)	(NA)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	21.3		
973000	Materials, parts, containers, and supplies, n.s.k. ².....	.....	(X)	5.1		
	INDUSTRY 3429.--HARDWARE, N.E.C.					
	Materials, parts, containers, and supplies, total.....	.....	(X)	1,140.8	(X)	855.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	173.5	37.6	103.1	19.2
331012	Sheet and strip.....	...do.....	1,000.3	210.9	746.1	124.5
331013	Plates.....	...do.....	15.9	5.6	(⁸)	(⁸)
331017	Wire and wire products.....	...do.....	125.7	33.1	101.0	20.8
331019	All other carbon steel mill shapes and forms.....	...do.....	48.1	14.4	⁸ 948.4	⁸ 912.5

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3429.--HARDWARE, N.E.C.--Continued					
	Mill shapes and forms (except castings)--Continued					
331020	Alloy steel (except stainless).....	...do.....	3.6	1.5	7.6	2.9
	Stainless steel:					
331033	Sheet and strip.....	...do.....	44.7	48.1	43.1	42.7
331050	All other.....	...do.....	2.9	4.8		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	.3	.2	2.4	1.8
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	32.3	19.5	26.2	12.8
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	35.5	27.6	30.1	18.3
335152	Pipe and tube.....	...do.....	4.9	1.4	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....	26.2	17.5	29.4	13.0
335405	Extruded shapes.....	...do.....	22.1	11.7	18.2	8.7
335008	All other aluminum mill shapes and forms.....	...do.....	3.0	2.1	2.7	1.4
	Primary metals:					
333122	Copper and copper-base alloy refinery shapes.....	1,000 s. tons.	7.7	6.9	8.9	7.7
333348	Zinc and zinc-base alloy refinery shapes.....	...do.....	105.4	42.9	127.2	39.5
333401	Aluminum and aluminum-base alloy refinery shapes.....	...do.....	2.9	1.3	3.9	1.9
339915	Metal powders.....	Million lb....	4.1	1.7	(D)	(D)
	Castings (rough and semifinished): ¹⁰					
332011	Iron (gray and malleable).....	1,000 s. tons.	34.8	18.8	55.1	24.6
332045	Steel.....	...do.....	5.4	5.8	8.3	5.1
336100	Aluminum and aluminum-base alloy.....	Million lb....	8.1	6.9	6.8	4.9
336200	Copper and copper-base alloy.....	...do.....	8.5	9.1	11.3	9.6
265011	Paperboard containers and boxes including folding, corrugated, fiber and setup.....	.....	(X)	28.3	(X)	383.4
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	471.8		
976000	Materials, parts, containers, and supplies, n.s.k. ².....	.....	(X)	111.3	(X)	100.6

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown (50 thousand dollars).

¹Data on the tonnage of tinplate, terneplate, blackplate, and aluminum consumed in the production of cans constructed wholly of metal are published in Current Industrial Reports series M-34D, Metal Cans. The consumption reported in the census of manufactures also includes such metals consumed in the production of secondary products.²This item represents the total cost of materials for establishments that did not report detailed materials data.³Includes cost for materials indicated by the symbol (D).⁴Excludes quantities produced and consumed in the same establishment.⁵These figures are understated by \$2 million or less because of apparent undercoverage of carbon steel pipe and tube.⁶Included with material code 970099, All other materials and components, etc.⁷In 1972, 9.4 thousand short tons of iron and steel forgings were produced and consumed in the same establishments. The comparable figure for 1967 is 6.2 thousand short tons.⁸Material code 331013, Plates, is combined with material code 331019, All other carbon steel mill shapes and forms.⁹These figures are understated by \$5 million or less because of apparent undercoverage of carbon steel pipe and tube.¹⁰In addition, there were 3.2 and 3.5 thousand short tons of iron castings produced and consumed in the same establishment for 1972 and 1967, respectively. Data on aluminum, steel, and copper castings produced and consumed are not available.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3411.--METAL CANS					
	Purchased fuels and electric energy.....		(X)	33.1	(X)	20.0
	Purchased fuels, total.....		(X)	15.2	(X)	9.1
121005	Coal.....	1,000 s. tons....	4.1	.1	56.2	.5
331212	Coke.....	...do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	314.0	1.5	272.0	.8
291141	Distillate.....	...do.....	226.8	1.1	89.0	.3
291151	Residual.....	...do.....	87.3	.4	183.0	.5
131300	Natural gas.....	Billion ft ³	19.1	11.1	12.6	7.2
960011	Other fuels.....	.....	(X)	1.1	(X)	.4
975000	Fuels, n.s.k.....	.....	(X)	1.4	(X)	.2
960012	Purchased electric energy.....	Million kWh.....	1,508.2	17.9	994.6	10.9
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.8	-
	Total energy used for heat and power.....	Bil. kWh equiv....	8.7	-	5.8	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3412.--METAL BARRELS, DRUMS, AND PAILS					
	Purchased fuels and electric energy.....		(X)	6.3	(X)	(NA) *
	Purchased fuels, total.....		(X)	3.1	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	.4	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	78.6	.3	(NA)	(NA)
291141	Distillate.....	..do.....	76.7	.3	(NA)	(NA)
291151	Residual.....	..do.....	1.9	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	3.4	2.1	(NA)	(NA)
960011	Other fuels.....		(X)	.3	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	194.8	3.2	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.6	-	(NA)	(NA)
	INDUSTRY 3421.--CUTLERY					
	Purchased fuels and electric energy.....		(X)	3.9	(X)	(NA)
	Purchased fuels, total.....		(X)	1.8	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	1.4	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	182.5	.7	(NA)	(NA)
291141	Distillate.....	..do.....	109.5	.5	(NA)	(NA)
291151	Residual.....	..do.....	72.9	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft ³.....	.7	.5	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	135.7	2.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.9	-	(NA)	(NA)
	INDUSTRY 3423.--HAND AND EDGE TOOLS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	11.6	(X)	8.7
	Purchased fuels, total.....		(X)	5.3	(X)	4.3
121005	Coal.....	1,000 s. tons.....	15.5	.1	54.2	.3
331212	Coke.....	..do.....	(S)	.1	(D)	(D)
	Fuel oil, total.....	1,000 bbl (42 gal)	236.6	1.1	284.3	1.1
291141	Distillate.....	..do.....	91.7	.5	134.7	.6
291151	Residual.....	..do.....	144.9	.6	149.6	.5
131300	Natural gas.....	Billion ft ³	4.5	2.7	3.2	2.2
960011	Other fuels.....		(X)	(Z)	(X)	.1
975000	Fuels, n.s.k.....		(X)	1.3	(X)	.6
960012	Purchased electric energy.....	Million kWh.....	406.1	6.3	268.8	4.4
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.9	-	2.1	-
	INDUSTRY 3429.--HARDWARE, N.E.C.					
	Purchased fuels and electric energy.....		(X)	27.4	(X)	22.0
	Purchased fuels, total.....		(X)	9.5	(X)	8.7
121005	Coal.....	1,000 s. tons.....	119.4	1.4	210.0	1.9
331212	Coke.....	..do.....	(S)	(Z)	1.9	.1
	Fuel oil, total.....	1,000 bbl (42 gal)	421.1	1.9	450.7	1.5
291141	Distillate.....	..do.....	204.9	1.0	148.0	.6
291151	Residual.....	..do.....	216.2	1.0	285.8	.9
131300	Natural gas.....	Billion ft ³	5.8	3.9	5.5	3.8
960011	Other fuels.....		(X)	.1	(X)	.2
975000	Fuels, n.s.k.....		(X)	2.2	(X)	1.3
960012	Purchased electric energy.....	Million kWh.....	1,336.5	17.9	1,093.0	13.4
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	5.7	-	5.4	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

Heating Apparatus (Except Electric and Warm Air Furnaces) and Plumbing Fixtures

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EXPLANATORY TEXT

HEATING APPARATUS (EXCEPT ELECTRIC AND WARM AIR FURNACES) AND PLUMBING FIXTURES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

3431—Enameled Iron and Metal Sanitary Ware*

3432—Plumbing Fixture Fittings and Trim (Brass Goods)*

3433—Heating Equipment, Except Electric and Warm Air Furnaces*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3431.—METAL SANITARY WARE (Short Title)

This industry includes establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware.

Establishments primarily engaged in manufacturing vitreous and semivitreous pottery sanitary ware are classified in industry 3261 (Vitreous Plumbing Fixtures); and those manufacturing porcelain enameled kitchen, household, and hospital ware in industry 3469 (Metal Stampings, N.E.C.). For a detailed list of products of industry 3431, refer to table 6A, product codes 34310 10 and 34310 98.

*Note that the "short title" for this industry is used throughout the report.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Metal Sanitary Ware Industry in 1972 totaled \$370 million. This included shipments of metal sanitary ware (primary products) valued at \$288 million, shipments of other products (secondary products) valued at \$53 million, and miscellaneous receipts (mainly resales) of \$30 million.

Shipments of metal sanitary ware (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of industry 3261, Vitreous Plumbing Fixtures (\$10 to \$20 million).

Shipments of metal sanitary ware (primary products) from establishments classified in industry 3431 in 1972 represented 91 percent (coverage ratio) of these products valued at \$316 million shipped by all industries. In 1967, the coverage ratio was 89 percent. Other industries shipping metal sanitary ware consisted mainly of industry 3465, Automotive Stampings, (\$5 to \$10 million) and industry 3469, Metal Stampings, N.E.C., (\$8 million).

Industry 3431 includes establishments which fall into two significantly different categories; namely, those producing cast iron plumbing fixtures and those producing metal fixtures of pressed metal. Accordingly, the manufacturing plants included in this industry involve different manufacturing processes depending upon the line of products produced. Those fixture plants producing cast iron fixtures include significant foundry operations while the pressed metal fixture plants are more closely allied to metal fabricating plants producing their product by forming processes (stamping, drawing, etc.).

The operations of the largest establishments in this industry cover the entire production process including the casting of the fixture through the machining, finishing, and assembly operations. In general, these processes are carried on at a single manufacturing plant. However, in a few instances the foundry operations were performed at separate locations and, accordingly, those separate foundries were classified in the foundry industries (SIC industries 3321, 3322, 3324, 3325, 3361, 3362, and 3369). In the latter case, the plants classified in this industry would be limited to machining and finishing operations on castings received from their associated plants.

Certain of the companies' operating plants classified in this industry also have establishments producing allied products classified in other industries. For example, the larger fixture

manufacturers also have plants engaged in manufacturing fixture fittings and such allied products as vitreous china fixtures, kitchen cabinets, warm air furnaces, boilers, and other consumer durable items in the plumbing and heating line.

As is shown in table 7A, certain of the more important materials consumed by the industry are pig iron, iron and steel scrap metal consumed in the foundry operations, and steel mill shapes and forms.

Data on shipments of plumbing fixtures were collected by the Bureau of the Census on a quarterly basis on Form MQ-34E. The detailed statistics shown in table 6A-2 were taken from the quarterly survey.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3431, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 3432.—PLUMBING FITTINGS AND BRASS GOODS (Short Title)

This industry includes establishments primarily engaged in manufacturing plumbing fixture fittings and trim (brass goods).

Establishments primarily engaged in manufacturing steam or water line valves are classified in industry 3494 (Valves and Pipe Fittings). For a detailed list of products of industry 3432, refer to table 6A, product codes 34320 01 to 34320 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Plumbing Fittings and Brass Goods Industry in 1972 totaled \$709 million. This included shipments of plumbing fittings and brass goods (primary products) valued at \$605 million, shipments of other products (secondary products) valued at \$66 million, and miscellaneous receipts (mainly resales) of \$38 million.

Shipments of plumbing fittings and brass goods (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of industry 3494, Valves and Pipe Fittings, (\$16 million).

Shipments of plumbing fittings and brass goods (primary products) from establishments classified in industry 3432 in

1972 represented 90 percent (coverage ratio) of these products valued at \$673 million shipped by all industries. In 1967, the coverage ratio was 86 percent. Other industries shipping plumbing fittings and brass goods consisted mainly of industry 3431, Metal Sanitary Ware, (\$20 to \$50 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3432, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3433.—HEATING EQUIPMENT, EXCEPT ELECTRIC (Short Title)

This industry includes establishments primarily engaged in manufacturing heating equipment, except electric, and warm air furnaces, including gas, oil, and stoker coal fired equipment, for the automatic utilization of gaseous, liquid, and solid fuels.

Establishments primarily engaged in manufacturing warm air furnaces are classified in industry 3585 (Refrigeration and Heating Equipment); cooking stoves and ranges in industry 3631 (Household Cooking Equipment); boiler shops primarily engaged in the production of industrial, power, and marine boilers in industry 3443 (Fabricated Platework, Boiler Shops); and industrial process furnaces and ovens in industry 3567 (Industrial Furnaces and Ovens). For a detailed list of products of industry 3433, refer to table 6A, product codes 34333 11 to 34337 98.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been changed from the previous classification system. Warm air furnaces (product code 34332 00 in 1967) and parts and attachments for warm air furnaces (product code 34336 73 in 1967) have been moved to industry 3585, Refrigeration and Heating Equipment.

Value of shipments and other receipts of the Heating Equipment, Except Electric, Industry in 1972 totaled \$1,058 million. This included shipments of heating equipment, except electric, (primary products) valued at \$814 million, shipments of other products (secondary products) valued at \$181 million, and miscellaneous receipts (mainly resales) of \$64 million.

Shipments of heating equipment, except electric, (primary products) in 1972 represented 82 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972

consisted mainly of industry 3585, Refrigeration and Heating Equipment, (\$58 million).

Shipments of heating equipment, except electric, (primary products) from establishments classified in industry 3433 in 1972 represented 88 percent (coverage ratio) of these products valued at \$924 million shipped by all industries. Other industries shipping heating equipment, except electric, consisted mainly of industry 3585, Refrigeration and Heating Equipment, (\$53 million).

Inasmuch as the primary products of industry 3433 represent a wide and heterogenous group of heating equipment products, the establishments in this industry are involved in a variety of manufacturing processes. Many heating equipment plants are engaged in metal fabricating activities; namely, stamping and forming. In addition, a significant number of the establishments in the industry are engaged in foundry and plate fabricating activities.

Some of the companies' operating plants classified in industry 3433 have establishments engaged in the production of allied products such as metal tanks, electric and nonelectric ranges, electric and nonelectric water heaters, and other consumer durable items principally in the heating and cooking line.

The establishments of this industry vary greatly in the degree to which they manufacture the components used in the production of heating and cooking equipment. Some manufac-

turers produce practically all of the component parts and incorporate only such purchased parts as the motor, electrical controls, and blowers. Other manufacturers produce only a small part of the complete unit, purchasing most of the components from other manufacturers and limiting their manufacturing activities to assembly operations.

Data are shown in table 6A for "oil burners sold separately." These statistics exclude the quantity and value of oil burners which were both produced and incorporated into other types of heating equipment in the same plant. In these instances, the value of the boiler or furnace burner unit includes the value of the oil burner.

Data on shipments of domestic heating stoves, mechanical stokers, oil burners, and furnaces were collected during 1972 by the Bureau of the Census on Annual Form MA-34N, Heating and Cooking Equipment (Except Electric). The product data shown in table 6A-3 are from that source.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3433, these establishments accounted for 7 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3431.--METAL SANITARY WARE															
1972 Census.....	95	50	11.2	104.3	9.2	18.6	81.4	208.1	162.9	369.9	8.2	(NA)	50.7	84	91
1971 ASM	(NA)	(NA)	11.5	101.6	9.2	18.7	76.4	193.2	149.3	345.4	6.2	155.3	80.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	11.5	94.1	9.0	17.6	70.2	163.3	135.5	295.6	8.4	130.1	54.4	(NA)	(NA)
1969 ASM	(NA)	(NA)	12.8	101.5	10.5	21.6	79.2	189.6	168.5	358.7	7.4	165.2	55.4	(NA)	(NA)
1968 ASM	(NA)	(NA)	10.9	79.5	9.0	18.5	62.1	160.1	132.6	292.2	* 8.2	146.5	41.6	(NA)	(NA)
1967 Census.....	91	51	10.1	71.3	8.1	16.4	53.5	140.6	109.3	251.2	7.6	145.1	43.0	83	89
1966 ASM	(NA)	(NA)	12.0	78.7	9.6	18.8	57.6	146.4	119.5	262.3	6.5	(NA)	50.5	(NA)	(NA)
1965 ASM	(NA)	(NA)	11.4	72.7	9.1	17.9	52.8	142.6	111.5	253.8	5.6	(NA)	43.3	(NA)	(NA)
1964 ASM	(NA)	(NA)	11.6	74.6	9.1	18.4	55.0	142.4	111.2	251.9	5.3	127.2	40.6	(NA)	(NA)
1963 Census.....	81	45	11.0	68.2	8.8	17.5	50.4	139.9	96.2	234.9	5.9	123.5	37.4	84	91
1962 ASM	(NA)	(NA)	9.5	57.6	7.6	15.7	42.4	111.8	95.1	209.5	* 5.4	120.9	36.0	(NA)	(NA)
1961 ASM	(NA)	(NA)	8.6	48.7	7.0	13.9	37.2	87.5	78.8	178.5	* 5.0	(NA)	33.9	(NA)	(NA)
1960 ASM	(NA)	(NA)	* 9.8	* 54.7	* 7.9	* 16.1	* 41.6	* 110.7	* 91.1	* 196.6	* 5.0	(NA)	* 45.5	(NA)	(NA)
1959 ASM	(NA)	(NA)	* 11.8	* 68.7	* 9.3	* 19.8	* 51.7	* 133.6	* 107.8	* 234.9	* 7.7	(NA)	* 47.5	(NA)	(NA)
1958 Census	63	41	12.4	67.8	10.1	19.2	50.8	118.6	95.2	214.9	8.9	(NA)	39.0	84	92
INDUSTRY 3432.--PLUMBING FITTINGS AND BRASS GOODS															
1972 Census.....	231	112	18.6	151.5	14.3	29.2	99.1	361.9	358.8	708.5	19.0	(NA)	139.5	90	90
1971 ASM	(NA)	(NA)	16.6	124.7	12.3	25.3	80.5	274.6	275.2	548.0	14.7	155.3	110.4	(NA)	(NA)
1970 ASM	(NA)	(NA)	16.0	113.4	12.0	23.9	74.2	238.4	250.4	472.7	11.5	130.1	102.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	16.7	118.8	12.9	25.3	77.7	257.7	253.8	504.5	10.7	135.8	104.3	(NA)	(NA)
1968 ASM	(NA)	(NA)	14.2	93.0	11.3	22.5	63.9	190.4	219.5	413.1	7.7	107.0	85.8	(NA)	(NA)
1967 Census.....	214	90	14.5	92.6	11.4	22.8	64.2	183.3	217.9	404.7	8.2	109.0	90.6	93	86
1966 ASM	(NA)	(NA)	15.0	84.8	11.9	22.4	60.0	183.0	223.8	396.3	7.0	(NA)	92.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	15.7	87.7	12.5	24.6	61.8	166.0	220.4	383.0	9.1	(NA)	78.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	15.3	84.6	12.5	24.6	61.7	189.3	197.1	377.9	7.2	103.5	75.9	(NA)	(NA)
1963 Census.....	250	102	15.1	79.3	12.3	24.0	58.3	154.8	181.3	333.8	6.5	97.6	64.7	90	83
1962 ASM	(NA)	(NA)	14.0	73.1	11.2	21.4	52.9	136.9	167.9	306.0	4.9	92.0	55.3	(NA)	(NA)
1961 ASM	(NA)	(NA)	13.1	67.6	10.4	20.4	48.4	128.9	145.2	271.9	4.8	(NA)	48.4	(NA)	(NA)
1960 ASM	(NA)	(NA)	14.8	74.4	12.0	23.1	54.6	135.8	146.9	283.1	3.5	(NA)	48.2	(NA)	(NA)
1959 ASM	(NA)	(NA)	15.8	77.2	13.2	25.6	58.2	158.1	155.8	310.9	4.3	(NA)	50.2	(NA)	(NA)
1958 Census	254	84	14.7	66.9	12.1	23.0	50.4	120.6	131.5	250.3	3.6	(NA)	44.8	91	83
INDUSTRY 3433.--HEATING EQUIPMENT, EXCEPT ELECTRIC															
1972 Census.....	432	191	30.9	268.0	22.0	43.2	164.5	561.6	518.6	1,058.4	24.5	(NA)	209.6	82	88
1967 Census ²	498	(NA)	31.4	204.9	22.3	44.0	123.8	415.5	350.9	762.0	16.2	(NA)	(NA)	(NA)	(NA)
1963 Census ²	594	(NA)	33.4	194.7	24.3	48.5	122.2	402.0	382.9	780.2	15.1	(NA)	(NA)	(NA)	(NA)
1958 Census ²	544	(NA)	32.8	161.8	24.3	47.5	106.2	308.6	314.2	629.5	10.4	(NA)	(NA)	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3431	Industry 3432	Industry 3433
1972.....	91	208	411
1967.....	83	210	496
1963.....	75	247	611

(NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²Data are derived from Table 8, General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization, of the 1967, 1963, and 1958 censuses of manufactures (volume II). The data are probably slightly overstated because they include establishments specializing in the production of parts for warm air furnaces.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3431.--METAL SANITARY WARE											
1972 Census.....	9,313	(NA)	82	2,022	4.38	.44	.72	(NA)	18,580	50	11.19
1971 ASM.....	8,830	13,500	80	2,033	4.09	.43	.73	.45	16,800	53	10.33
1970 ASM.....	8,183	11,310	78	1,956	3.99	.46	.78	.44	14,200	58	9.28
1969 ASM.....	7,930	12,910	82	2,057	3.67	.47	.75	.46	14,813	54	8.78
1968 ASM.....	7,294	13,440	83	2,056	3.36	.45	.73	.50	14,688	50	8.65
1967 Census.....	7,054	14,370	80	2,015	3.27	.43	.72	.58	13,911	51	8.58
1966 ASM.....	6,563	(NA)	80	1,957	3.07	.46	.76	(NA)	12,217	54	7.80
1965 ASM.....	6,364	(NA)	80	1,958	2.96	.44	.73	(NA)	12,490	51	7.98
1964 ASM.....	6,448	10,970	78	2,036	2.98	.44	.74	.50	12,315	52	7.72
1963 Census.....	6,190	11,230	80	1,981	2.88	.41	.70	.53	12,702	49	7.99
1962 ASM.....	6,060	12,730	80	2,066	2.71	.45	.73	.58	11,767	51	7.13
1961 ASM.....	5,630	(NA)	81	1,992	2.66	.44	.71	(NA)	10,117	56	6.27
1960 ASM.....	5,563	(NA)	81	2,034	2.58	.46	.74	(NA)	11,267	49	6.86
1959 ASM.....	5,830	(NA)	79	2,138	2.61	.46	.75	(NA)	11,340	51	6.73
1958 Census.....	5,458	(NA)	81	1,907	2.65	.44	.76	(NA)	9,536	57	6.18
INDUSTRY 3432.--PLUMBING FITTINGS AND BRASS GOODS											
1972 Census.....	8,145	(NA)	77	2,042	3.39	.51	.72	(NA)	19,457	42	12.39
1971 ASM.....	7,512	9,360	74	2,057	3.18	.50	.73	.28	16,542	45	10.85
1970 ASM.....	7,088	8,130	75	1,992	3.11	.53	.77	.28	14,900	48	9.98
1969 ASM.....	7,114	8,130	77	1,961	3.07	.50	.74	.27	15,431	46	10.19
1968 ASM.....	6,549	7,540	80	1,991	2.84	.53	.76	.26	13,408	49	8.46
1967 Census.....	6,386	7,520	78	2,007	2.81	.54	.77	.27	12,643	51	8.03
1966 ASM.....	5,667	(NA)	79	1,888	2.68	.56	.78	(NA)	12,233	46	8.16
1965 ASM.....	5,586	(NA)	79	1,974	2.51	.58	.80	(NA)	10,569	53	6.73
1964 ASM.....	5,530	6,760	81	1,977	2.50	.52	.75	.27	12,376	45	7.68
1963 Census.....	5,244	6,460	81	1,948	2.43	.54	.78	.29	10,229	51	6.45
1962 ASM.....	5,206	6,570	80	1,907	2.48	.55	.79	.30	9,750	53	6.41
1961 ASM.....	5,163	(NA)	80	1,950	2.38	.53	.78	(NA)	9,848	52	6.33
1960 ASM.....	5,018	(NA)	81	1,917	2.37	.52	.78	(NA)	9,168	55	5.89
1959 ASM.....	4,870	(NA)	83	1,948	2.27	.50	.75	(NA)	9,973	49	6.17
1958 Census.....	4,565	(NA)	83	1,894	2.19	.53	.79	(NA)	8,222	56	5.24
INDUSTRY 3433.--HEATING EQUIPMENT, EXCEPT ELECTRIC											
1972 Census.....	8,673	(NA)	71	1,964	3.81	.49	.74	(NA)	18,175	48	13.00

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)				(number)	(number)			
New industry 3433.--Heating Equipment, Except Electric....	432	191	30.9	561.6	1,058.4	(X)	(X)	(X)	(X)	(X)
Old industry 3433.--Heating Equipment, Except Electric....	432	191	30.9	561.6	1,058.4	474	221	40.8	753.7	1,497.1

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3431-- METAL SANITARY WARE													
UNITED STATES.	95	50	11.2	104.3	9.2	18.6	81.4	208.1	162.9	369.9	8.2	10.1	140.6
NORTHEAST REGION.	18	10	.9	7.1	.8	1.4	5.6	10.9	12.8	24.1	.5	1.2	15.7
MIDDLE ATLANTIC DIVISION. . . E1	15	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK. E1	6	3	.3	2.6	.2	.4	1.8	3.6	4.5	7.9	(D)	BB	(D)
PENNSYLVANIA.	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.3
NORTH CENTRAL REGION.	31	19	6.5	64.3	5.3	11.0	51.1	134.5	95.9	229.6	4.1	5.3	76.2
EAST NORTH CENTRAL DIVISION. . .	28	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO.	5	3	1.5	13.9	1.2	2.2	11.0	25.6	22.5	48.4	1.6	1.4	20.0
INDIANA.	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.1
ILLINOIS.	10	9	1.3	11.1	1.0	1.8	7.0	35.5	22.5	56.7	.8	1.1	19.8
MICHIGAN.	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WISCONSIN.	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION.	28	14	3.3	28.8	2.7	5.4	21.8	53.5	45.3	98.4	2.8	2.7	38.0
SOUTH ATLANTIC DIVISION.	13	6	1.0	8.5	.9	1.6	6.7	19.7	12.0	31.8	.4	1.0	14.1
MARYLAND.	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
EAST SOUTH CENTRAL DIVISION. . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KENTUCKY.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . .	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS.	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION. E1	18	7	.5	4.1	.4	.7	2.9	9.3	8.9	17.8	.8	.8	10.6
PACIFIC DIVISION. E1	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA. E1	14	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3432-- PLUMBING FITTINGS AND BRASS GOODS													
UNITED STATES.	231	112	18.6	151.5	14.3	29.2	99.1	361.9	358.8	708.5	19.0	14.5	183.3
NORTHEAST REGION. E1	65	24	3.2	25.0	2.5	4.8	16.5	57.5	51.0	107.5	3.0	3.0	37.5
NEW ENGLAND DIVISION. E1	19	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MASSACHUSETTS. E2	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	8.9
MIDDLE ATLANTIC DIVISION. . . . E1	46	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK. E3	26	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	7.2
NEW JERSEY.	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PENNSYLVANIA.	15	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	14.8
NORTH CENTRAL REGION.	79	44	8.2	75.1	6.0	12.7	47.3	166.6	181.9	347.0	8.0	6.2	83.4
EAST NORTH CENTRAL DIVISION. . .	64	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO.	21	13	2.5	25.1	1.5	3.3	12.6	44.6	51.0	97.6	2.7	1.5	16.2
INDIANA.	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	25.9
ILLINOIS.	21	9	1.5	13.8	1.3	2.7	9.8	27.6	32.2	58.5	1.8	1.4	16.8
MICHIGAN.	11	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN.	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION. . .	15	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MINNESOTA.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
IOWA.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSOURI.	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	35	19	3.6	24.3	2.8	5.8	17.8	67.4	59.1	123.8	5.4	3.5	40.8
SOUTH ATLANTIC DIVISION.	18	11	2.0	13.9	1.6	3.1	10.0	33.1	31.0	63.2	2.8	EE	(D)
DELAWARE.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST VIRGINIA.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION. . .	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KENTUCKY.	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . .	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS.	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION.	52	25	3.6	27.0	3.0	6.0	17.5	70.3	66.7	130.3	2.6	1.8	21.6
PACIFIC DIVISION.	47	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA.	41	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3433-- HEATING EQUIPMENT, EXCEPT ELECTRIC													
UNITED STATES.	432	191	30.9	268.0	22.0	43.2	164.5	561.6	518.6	1 058.4	24.5	(NA)	(NA)
NORTHEAST REGION.	151	61	9.0	81.2	6.1	12.3	49.2	168.9	146.5	313.1	4.9	(NA)	(NA)
NEW ENGLAND DIVISION. E1	33	11	1.2	10.9	.7	1.6	5.6	23.1	21.6	43.7	1.2	(NA)	(NA)
MASSACHUSETTS. E1	15	4	.6	4.8	.4	.8	3.2	10.8	9.4	19.9	.8	(NA)	(NA)
CONNECTICUT.	12	7	.6	5.8	.3	.7	2.4	11.8	11.7	22.8	.3	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . .	118	50	7.8	70.3	5.4	10.7	43.6	145.8	124.9	269.4	3.7	(NA)	(NA)
NEW YORK.	40	13	2.7	22.9	1.8	3.7	15.7	50.6	39.4	87.9	.1	(NA)	(NA)
NEW JERSEY. E1	30	11	1.0	9.5	.7	1.3	5.0	20.1	17.3	36.8	(D)	(NA)	(NA)
PENNSYLVANIA.	48	26	4.1	37.9	2.9	5.7	22.9	75.1	68.2	144.7	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ²	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3433-- HEATING EQUIPMENT, EXCEPT ELECTRIC--CONTINUED													
NORTH CENTRAL REGION	143	71	13.6	126.2	9.7	18.9	77.5	247.2	244.8	483.1	14.4	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	108	56	12.0	111.3	8.6	16.7	68.8	221.9	218.7	433.0	12.9	(NA)	(NA)
OHIO	27	11	1.4	15.1	.8	1.8	7.4	34.6	30.6	64.6	.6	(NA)	(NA)
INDIANA	10	7	5.3	49.9	4.0	8.2	33.5	91.2	118.7	206.1	8.6	(NA)	(NA)
ILLINOIS	35	20	3.1	25.4	2.1	3.7	14.9	49.5	42.7	89.2	1.8	(NA)	(NA)
MICHIGAN	25	12	1.1	11.2	.8	1.5	6.6	24.7	14.5	39.8	.8	(NA)	(NA)
WISCONSIN	11	6	1.1	9.7	.9	1.6	6.6	21.9	12.2	33.4	1.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	35	15	1.6	14.9	1.1	2.1	8.7	25.2	26.1	50.0	1.5	(NA)	(NA)
MINNESOTA E2	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	11	3	BB	2.8	.2	.3	1.2	5.5	3.8	8.6	(D)	(NA)	(NA)
NEBRASKA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION E1	88	40	6.4	43.2	4.9	9.4	27.1	110.1	90.3	192.6	4.2	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	36	19	2.4	16.3	1.7	3.3	9.4	39.9	37.4	75.7	3.1	(NA)	(NA)
MARYLAND	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . E3	20	13	3.3	21.6	2.6	5.1	14.6	59.8	39.5	94.2	.8	(NA)	(NA)
KENTUCKY	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA E6	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E1	32	8	.8	5.2	.5	1.0	3.2	10.4	13.4	22.8	.3	(NA)	(NA)
TEXAS E1	23	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. E1	50	19	1.9	17.4	1.3	2.6	10.7	35.4	37.0	69.6	1.0	(NA)	(NA)
PACIFIC DIVISION E1	47	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA	36	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Metal sanitary ware (SIC 3431)	Plumbing fittings and brass goods (SIC 3432)	Heating equipment, except electric (SIC 3433)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	84	90	82
COVERAGE RATIO ² DO	91	90	88
ESTABLISHMENTS, TOTAL NUMBER	95	231	432
WITH 1 TO 19 EMPLOYEES. DO	45	119	241
WITH 20 TO 99 EMPLOYEES DO	26	57	113
WITH 100 EMPLOYEES OR MORE. DO	24	55	78
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	11.2	18.6	30.9
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	104.3	151.5	268.0
PRODUCTION WORKERS:			
AVERAGE FOR YEAR. 1,000	9.2	14.3	22.0
MARCH DO	9.1	14.3	21.3
MAY DO	9.1	14.6	21.3
AUGUST DO	9.0	13.8	22.1
NOVEMBER DO	9.4	14.4	22.1
MAN-HOURS MILLIONS	18.6	29.2	43.2
JANUARY-MARCH DO	4.6	7.2	10.8
APRIL-JUNE DO	4.6	7.7	10.2
JULY-SEPTEMBER DO	4.5	6.9	10.7
OCTOBER-DECEMBER DO	4.9	7.4	11.5
WAGES MILLION DOLLARS	81.4	99.1	164.5
COST OF MATERIALS, ETC., TOTAL DO	162.9	358.8	518.6
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	136.3	332.6	472.3
COST OF RESALES DO	17.1	15.3	32.2
FUELS CONSUMED. DO	5.9	2.0	4.8
PURCHASED ELECTRIC ENERGY DO	2.9	3.8	5.0
CONTRACT WORK DO	.7	5.0	4.4
VALUE OF SHIPMENTS, INCLUDING RESALES DO	369.9	708.5	1 058.4
VALUE OF RESALES. DO	24.7	19.0	48.6

See footnotes at end of table.

TABLE 3. Detailed Statistics: 1972—Continued

(See appendix, Explanation of Terms)

Item	Metal sanitary ware (SIC 3431)	Plumbing fittings and brass goods (SIC 3432)	Heating equipment, except electric (SIC 3433)
VALUE ADDED BY MANUFACTURE	208.1	361.9	565.4
MANUFACTURERS' INVENTORIES:			
BEGINNING OF YEAR, TOTAL	52.2	123.9	179.0
FINISHED PRODUCTS	19.2	57.5	60.7
WORK IN PROCESS	9.8	36.0	41.6
MATERIALS, SUPPLIES, FUEL, ETC.	23.2	30.4	76.7
END OF YEAR, TOTAL	50.7	139.5	209.6
FINISHED PRODUCTS	18.1	64.6	67.3
WORK IN PROCESS	12.1	40.9	56.9
MATERIALS, SUPPLIES, FUEL, ETC.	20.5	34.0	85.4
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL	8.7	19.6	25.4
NEW PLANT AND EQUIPMENT, TOTAL	8.2	19.0	24.5
NEW STRUCTURES AND ADDITIONS TO PLANT	1.6	6.8	6.6
NEW MACHINERY AND EQUIPMENT	6.5	12.2	18.0
USED PLANT AND EQUIPMENT . . . . .	.5	.6	.9

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establish- ments	All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of shipments	Capital expendi- tures, new	End-of- year inven- tories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3431-- METAL SANITARY WARE											
ESTABLISHMENTS, TOTAL.	95	11.2	104.3	9.2	18.6	81.4	208.1	162.9	369.9	8.2	50.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	29	(Z)	.4	(Z)	.1	.3	1.2	1.4	2.6	.6	.4
5 TO 9 EMPLOYEES E0	7	(Z)	.3	(Z)	(Z)	.3	.7	.6	1.2	(D)	.2
10 TO 19 EMPLOYEES	9	.1	1.4	.1	.2	.8	2.3	2.3	4.5	.1	.5
20 TO 49 EMPLOYEES	10	.3	2.1	.2	.5	1.6	6.1	6.4	12.3	.1	1.5
50 TO 99 EMPLOYEES	16	1.1	8.0	.9	1.7	6.0	18.3	18.6	36.8	1.2	6.5
100 TO 249 EMPLOYEES	12	1.9	16.8	1.4	2.8	10.4	33.4	36.8	69.0	1.2	11.6
250 TO 499 EMPLOYEES	6	2.1	18.5	1.7	3.4	13.4	43.0	31.5	74.7	1.0	10.6
500 TO 999 EMPLOYEES	5	5.5	56.7	4.7	9.9	48.7	103.1	65.3	168.8	4.0	19.5
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	24	.1	.5	.1	.1	.3	1.0	1.0	2.0	(Z)	.3
3432-- PLUMBING FITTINGS AND BRASS GOODS											
ESTABLISHMENTS, TOTAL.	231	18.6	151.5	14.3	29.2	99.1	361.9	358.8	708.5	19.0	139.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	62	.1	.7	.1	.1	.5	1.7	1.9	3.6	.1	.8
5 TO 9 EMPLOYEES E6	32	.2	1.7	.1	.3	1.1	4.0	4.5	8.6	.2	1.4
10 TO 19 EMPLOYEES E2	25	.3	2.7	.3	.5	1.6	6.9	6.9	13.8	.2	1.9
20 TO 49 EMPLOYEES E2	41	1.3	9.8	1.0	1.8	6.0	26.5	27.9	53.7	1.6	8.7
50 TO 99 EMPLOYEES	16	1.2	9.1	1.0	2.0	6.0	24.0	33.3	55.8	1.7	12.8
100 TO 249 EMPLOYEES	34	5.2	40.3	4.3	8.6	30.0	89.7	104.9	194.7	3.9	38.9
250 TO 499 EMPLOYEES	15	5.3	41.0	4.3	8.9	28.5	118.9	98.7	210.8	5.1	42.5
500 TO 999 EMPLOYEES	4	4.9	46.2	3.3	7.0	25.5	90.2	80.6	167.6	6.3	32.4
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	65	.2	1.6	.2	.3	1.1	3.4	4.1	7.5	.2	1.6
3433-- HEATING EQUIPMENT, EXCEPT ELECTRIC											
ESTABLISHMENTS, TOTAL.	432	30.9	268.0	22.0	43.2	164.5	561.6	518.6	1 058.4	24.5	209.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	124	.2	1.5	.2	.3	.9	4.0	4.0	8.0	.2	1.7
5 TO 9 EMPLOYEES E6	63	.4	3.2	.3	.5	1.7	7.6	6.9	14.7	.4	3.1
10 TO 19 EMPLOYEES E2	54	.8	6.6	.5	1.1	3.6	15.0	14.8	29.7	.5	5.1
20 TO 49 EMPLOYEES	63	2.0	18.2	1.4	2.7	10.8	36.3	34.9	70.7	1.7	10.9
50 TO 99 EMPLOYEES	50	3.4	28.0	2.4	4.6	16.0	63.1	68.1	129.0	3.7	25.6
100 TO 249 EMPLOYEES	49	8.4	72.2	5.6	11.1	41.2	145.6	142.9	284.1	6.1	60.0
250 TO 499 EMPLOYEES	20	7.0	60.0	5.0	9.9	37.7	128.8	100.4	223.2	2.8	50.5
500 TO 999 EMPLOYEES	8	8.7	78.4	6.6	13.0	52.4	161.2	146.8	299.0	9.1	52.8
2,500 EMPLOYEES OR MORE	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	134	.4	2.9	.3	.5	1.7	7.1	7.5	14.5	.5	3.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3431	METAL SANITARY WARE										
	ENTIRE INDUSTRY	95	11.2	104.3	9.2	18.6	81.4	208.1	162.9	369.9	18.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	81	6.5	57.2	5.3	10.4	43.6	123.7	99.1	222.9	10.4
3432	PLUMBING FITTINGS AND BRASS GOODS										
	ENTIRE INDUSTRY	231	18.6	151.5	14.3	29.2	99.1	361.9	358.8	708.5	19.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	212	15.1	115.8	12.2	24.5	82.0	291.6	292.6	572.0	14.7
3433	HEATING EQUIPMENT, EXCEPT ELECTRIC										
	ENTIRE INDUSTRY	432	30.9	268.0	22.0	43.2	164.5	561.6	518.6	1 058.4	24.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	391	20.5	171.5	14.6	28.5	105.3	378.1	318.2	679.5	13.9
34333	CAST IRON HEATING BOILERS, RADIATORS, CONVECTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	24	4.4	38.8	3.2	6.7	27.2	93.6	79.5	169.3	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	19	3.8	33.7	2.8	5.9	24.0	81.3	63.9	141.4	2.1
34334	DOMESTIC HEATING STOVES (EXC. ELECTRIC AND PARTS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	12	3.0	21.8	2.3	4.0	13.3	42.1	45.5	82.8	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	5	1.0	7.4	.8	1.6	4.5	14.2	14.9	27.8	.7
34335	STEEL HEATING BOILERS, 15 PSI AND UNDER, EXC. PTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	25	1.8	15.8	1.3	2.5	10.0	35.6	31.9	66.8	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	16	1.0	8.4	.8	1.5	5.5	21.8	18.1	39.4	.5
34337	OTHER HEATING EQUIP. AND PARTS, EXC. ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	147	18.6	167.9	12.9	25.6	99.4	328.1	320.0	638.7	16.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	111	9.9	83.6	6.9	13.4	50.0	168.2	144.7	308.2	8.4

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3431	Metal sanitary ware.....1972..	369.9	287.5	52.9	29.5	84	315.6	287.5	28.1	91
	.....1967..	251.2	189.2	36.8	25.2	83	213.1	189.2	23.9	89
3432	Plumbing fittings and brass goods.....1972..	708.5	604.7	66.3	37.5	90	673.2	604.7	68.5	90
	.....1967..	404.7	346.7	27.9	30.1	93	404.6	346.7	57.9	86
3433	Heating equipment, except electric.....1972..	1,058.4	813.6	181.3	63.5	82	924.0	813.6	110.4	88
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Metal sanitary ware (SIC 3431)	Plumbing fittings and brass goods (SIC 3432)	Heating equipment, except electric (SIC 3433)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	369.9	708.5	1,058.4	(X)
3431-	Metal plumbing fixtures.....	315.6	287.5	.9	-	27.2
3432-	Plumbing fittings and brass goods.....	673.2	(20-50)	604.7	-	(20-50)
3433-	Heating equipment, except electric.....	924.0	-	(under 2)	813.6	(100-200)
34333	Cast iron heating boilers radiators and convectors, except parts.....	152.5	-	-	149.9	2.6
34334	Domestic heating stoves (except electric) excluding parts..	70.0	-	(under 2)	63.0	(5-10)
34335	Steel heating boilers (15 P.S.I. and under), except parts..	68.7	-	-	50.3	18.4
34337	Other heating equipment, except electric, including parts for nonelectric heating equipment.....	565.5	-	-	485.9	79.6
34330	Heating equipment, except electric, n.s.k.....	67.3	-	-	64.5	2.8
	Other product shipments by 4-digit product group:					
3261	Vitreous plumbing fixtures.....	(X)	(10-20)	(under 2)	-	(X)
3316	Cold finishing of steel shapes.....	(X)	-	(10-20)	-	(X)
3321	Gray iron foundries.....	(X)	-	(under 2)	7.5	(X)
3429	Hardware, n.e.c.....	(X)	-	(2-5)	(2-5)	(X)
3443	Fabricated plate work.....	(X)	-	-	9.3	(X)
3444	Sheet metalwork.....	(X)	-	(under 2)	5.0	(X)
3452	Bolts, nuts, rivets, and washers.....	(X)	-	(2-5)	(under 2)	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	-	(2-5)	(X)
3494	Valves and pipe fittings.....	(X)	-	15.8	8.5	(X)
3498	Fabricated pipe and fittings.....	(X)	-	(2-5)	(under 2)	(X)
3499	Fabricated metal products, n.e.c.....	(X)	-	(under 2)	(2-5)	(X)
3531	Construction machinery.....	(X)	-	-	(5-10)	(X)
3542	Machine tools, metal forming type.....	(X)	(2-5)	-	-	(X)
3561	Pumps and pumping equipment.....	(X)	-	(under 2)	(5-10)	(X)
3564	Blowers and fans.....	(X)	-	(2-5)	5.4	(X)
3568	Power transmission equipment, n.e.c.....	(X)	-	(5-10)	-	(X)
3569	General industrial machinery, n.e.c.....	(X)	-	(2-5)	(5-10)	(X)
3585	Refrigeration and heating equipment.....	(X)	(2-5)	(under 2)	57.5	(X)
3631	Household cooking equipment.....	(X)	-	-	6.4	(X)
3632	Household refrigerators and freezers.....	(X)	-	-	(20-50)	(X)
3634	Electric housewares and fans.....	(X)	-	-	(2-5)	(X)
	Miscellaneous receipts, total.....	(X)	29.5	37.5	63.5	(X)
930000	Contract work.....	(X)	2.9	4.9	3.7	(X)
9998013	Sales of scrap and refuse.....	(X)	(under 2)	10.3	(under 2)	(X)
9998061	Receipts for repair work.....	(X)	-	(under 2)	(under 2)	(X)
9998098	Other miscellaneous receipts.....	(X)	(under 2)	(2-5)	9.7	(X)
99989	Value of resales.....	(X)	24.7	19.0	48.6	(X)

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued	
3431	3079 Miscellaneous plastics products.....	(2-5)	3433	3321 Gray iron foundries.....	5.5
	3261 Vitreous plumbing fixtures.....	(2-5)		3423 Hand and edge tools, n.e.c.....	(2-5)
	3465 Automotive stampings.....	(5-10)		3443 Fabricated plate work (boiler shops).....	16.9
	3469 Metal stampings, n.e.c.....	8.3		3564 Blowers and fans.....	9.8
3432	3261 Vitreous plumbing fixtures.....	(5-10)		3585 Refrigeration and heating equipment..	53.1
	3354 Aluminum extruded products.....	(5-10)		3631 Household cooking equipment.....	(5-10)
	3431 Metal sanitary ware.....	(2-5)		3639 Household appliances, n.e.c.....	9.6
	3494 Valves and pipe fittings.....	11.4		3825 Instruments to measure electricity....	(2-5)
	3524 Lawn and garden equipment.....	(2-5)			

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972	1967			
3431- --	METAL SANITARY WARE, TOTAL.....	315.6	213.1			
	Metal Plumbing Fixtures:					
	Enameled iron and metal plumbing fixtures:					
34310 10	As reported in census of manufactures.....	285.8	185.2			
	As reported in Current Industrial Reports, series MQ-34E, Plumbing Fixtures (See table 6A-2 for detailed product data).....	267.0	180.8			
34310 98	Other enameled iron and metal plumbing fixtures.....	16.2	15.3			
34310 00	Metal sanitary ware, n.s.k., for establishments with 10 employees or more. (See note.).....	11.7	11.9			
34310 02	Metal sanitary ware, n.s.k., for establishments with less than 10 employees. (See note.).....	1.9	.7			
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3432- --	PLUMBING FITTINGS AND BRASS GOODS, TOTAL.....		(X)	673.2	(X)	404.6
	Plumbing Fixture Fittings and Trim (Brass Goods):					
	Bath and shower fittings:					
34320 01	Single control bath and shower fittings.....	Million units.	2.2	28.4	1.2	17.0
	Other than single control fittings:					
34320 03	Bathtub fillers.....	..do.....	1.5	10.8	.4	3.1
34320 05	Bathtub and shower combination.....	..do.....	3.2	31.8	2.0	19.6
34320 07	Shower fittings (with shower heads).....	..do.....	2.1	12.1	.6	5.1
34320 18	Bath drains and overflows.....	..do.....	4.3	22.8	3.1	18.3
34320 19	Other bath and shower fittings, including single bath faucets, shower heads, pop-up drains sold separately, etc.....	..do.....	4.3	16.7	3.0	8.5
	Lavatory fittings:					
	Combination 4" center-set fittings (with or without pop-up drains):					
34320 21	Single control type.....	..do.....	2.4	30.4	.9	12.3
34320 22	Other type.....	..do.....	7.0	52.0	3.7	24.0
34320 23	Other combination fittings (with or without pop-up drains)..	..do.....	1.8	12.0	.9	13.4
34320 29	Other lavatory fittings, including pop-up drains sold separately and single lavatory faucets.....	..do.....	4.9	12.8	2.6	9.6
	Sink fittings:					
	Deck-type combination sink faucets:					
34320 31	Single control type.....	..do.....	4.4	56.5	1.9	26.1
34320 32	Other type.....	..do.....	5.7	45.6	3.4	24.2
34320 33	Other combination sink faucets.....	..do.....	1.5	10.0	1.5	10.8
34320 39	Other sink fittings, including sink strainers sold separately and single sink faucets.....	..do.....	13.1	19.7	10.4	15.8
	Miscellaneous items:					
34320 45	P-traps.....	..do.....	15.9	21.9	9.2	11.1
34320 46	S-traps.....	..do.....	2.7	5.7	3.1	4.5
34320 47	Compression stops, including those with drains.....	..do.....	6.3	8.4	13.2	7.9
34320 48	Sediment, lawn, hose bibb, and sill faucets.....	..do.....	(NA)	14.6	11.7	11.3
34320 51	Lawn hose nozzles and lawn sprinklers.....	..do.....	(X)	66.9	(X)	19.9
34320 53	Water closet tank flushing controls, except flush valves.....	..do.....	(X)	20.8	(X)	17.1
34320 61	Flush valves.....	..do.....	(X)		(X)	21.3
34320 98	Other miscellaneous items, including double laundry-tray faucets.....	..do.....	(X)	108.6	(X)	59.7
34320 00	Plumbing fittings and brass goods, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	57.2	(X)	39.3
34320 02	Plumbing fittings and brass goods, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	7.5	(X)	4.7
3433- --	HEATING EQUIPMENT, EXCEPT ELECTRIC, TOTAL.....		(X)	924.0	(X)	1738.9
34333 --	Cast Iron Heating Boilers, Radiators, and Convectors, Except Parts.....		(X)	152.5	(X)	133.3
	Cast iron boilers:					
	As reported on Census Annual Form MA-34N. (See table, 6A-3 for detailed product data.).....	Million lb....	162.9	97.1	185.2	87.0
	As reported in the census of manufactures.....	..do.....	240.3	99.9	(X)	76.3
34333 11	Oil.....	..do.....	118.7	56.3	92.6	33.5
34333 15	Solid fuel.....	..do.....				
34333 13	Gas.....	..do.....	121.6	43.6	97.0	42.8

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3433- --	HEATING EQUIPMENT, EXCEPT ELECTRIC--Continued					
34333 --	Cast Iron Heating Boilers, Radiators, and Converters, Except Parts--Continued					
	Radiators and convectors:					
	Cast iron radiators and convectors:					
	As reported on Census Annual Form MA-34N.....	Mil. sq. ft. of radiation.	(X)	5.0	9.8	7.8
34333 50	As reported in the census of manufactures.....		(X)	4.6	(X)	8.9
34333 81	Steel, residential and industrial.....	Mil. sq.ft. of equiv. direct radiation.	(NA)	3.3	(NA)	4.4
	Aluminum, including baseboard and finned tube type:					
34333 72	Residential.....	...do.....	72.2	35.7	59.2	25.8
34333 74	Industrial and special types.....	...do.....	5.1	2.9	25.4	13.6
34333 79	Other nonferrous metal.....	...do.....	-	-		
34333 00	Cast iron heating boilers, radiators, and convectors, n.s.k....	...do.....	(X)	6.1	(X)	4.3
	Domestic Heating Stoves (Except Electric), Excluding Parts:					
	As reported on Census Annual Form MA-34N ¹ (See table 6A-3 for detailed product data.).....	1,000 units...	1,316.7	65.3	1,491.2	52.4
34334 00	As reported in the census of manufactures.....		(X)	70.0	(X)	50.1
34335 --	Steel Heating Boilers (15 P.S.I. and Under), Excluding Parts....		(X)	68.7	(X)	67.0
	Steel heating boilers (15 p.s.i. working pressure and under, and all hot water boilers), excluding parts:					
34335 12	400,000 Btu/hr and below.....	1,000 units...	45.6	24.7	93.3	40.3
34335 15	Gross output of these boilers.....	1,000 Btu/hr..	11,478.4	(X)	25,109.3	(X)
	400,000 Btu/hr and over:					
34333 21	Horizontal fire box.....	1,000 units..	7.8	16.3	2.2	8.5
34335 25	Gross output of these boilers.....	1,000 Btu/hr..	5,072.4	(X)	8,014.4	(X)
34335 31	Scotch type.....	1,000 units...	.8	5.5		
34335 43	Other types.....	...do.....	12.5	15.5	5.0	10.1
34335 35	Gross output, scotch type.....	1,000 Btu/hr..	3,511.2	(X)	9,662.8	(X)
34335 45	Gross output, other types.....	...do.....	5,732.0	(X)		
34335 00	Steel heating boilers, n.s.k.....	...do.....	(X)	6.7	(X)	8.1
34337 --	Other Heating Equipment, Except Electric, Including Parts and Non-electrical Heating Equipment.....		(X)	565.5	(X)	¹ 414.9
34337 10, 20, 30, 39, 50, 54	Oil burners (sold separately), except range type; floor and wall furnaces; unit heaters; duct furnaces; range boilers, expansion tanks, hot water storage tanks, and mechanical stokers:					
	As reported in the census of manufactures.....		(X)	165.3	(X)	(NA)
	As reported on Census Annual Form MA-34N (See table 6A-3 for detailed product data.).....		(X)	161.1	(X)	² 111.8
34337 15	Oil burners, range type (sleeve and pot type for use in water heaters, stoves, ranges, etc.).....		(X)	(³)	(X)	2.5
	Gas burners (for furnaces, boilers, water heaters, etc.):					
	Residential, commercial, and industrial gas burners (sold separately) and gas conversion burners:					
34337 16	Under 400,000 Btu/hr.....	1,000 units...	349.0	38.0	(NA)	33.0
34337 18	400,000 Btu/hr and over.....	...do.....	23.7	16.9	101.8	10.1
34337 19	Parts and attachments for gas burners (sold separately).....		(X)	15.4	(X)	8.8
	Unit heaters:					
	Steam or hot water heating element:					
34337 31	Centrifugal fan type (blower).....	1,000 units...	(NA)	9.5	(NA)	² 14.8
34337 33	Propeller fan type.....	...do.....	43.9	6.9	(NA)	² 13.1
34337 35	Heavy duty gas-fired forced warm-air type (over 400,000 Btu/hr).....	...do.....	1.4	2.1	(NA)	5.5
34337 38	Gas-fired infra-red heaters.....	...do.....	29.0	3.4	(X)	(⁴)
	Heater-transfer coils (blast coils):					
34337 41	Copper or aluminum.....		(X)	84.4	(X)	² 12.3
34337 49	All other.....		(X)	5.9	(X)	² 1.2
34337 60	Units ventilators.....	1,000 units...	119.8	28.8	² 52.0	² 26.4
34337 61	Tanks for water heaters (sold separately).....	...do.....	(⁵)	(⁵)	(⁵)	(⁵)
34337 71	Nonelectric prefabricated fireplaces for heating purposes.....	...do.....	57.0	4.9	(NA)	(⁴)
	Parts and attachments:					
34337 85	For oil burners.....		(X)	20.9	(X)	11.2
34337 87	Parts for unit heaters and unit ventilators, cast iron and steel heating boilers, and for mechanical stokers.....		(X)	16.9	(X)	² 6.9
34337 98	Other heating equipment, except electric (including solar heaters and incinerators) and other parts for heating equipment, except electric (sold separately).....		(X)	³ 598.3	(X)	⁴ ⁵ 124.6
34337 00	Other heating equipment, n.s.k.....		(X)	47.9	(X)	16.0
34330 00	Heating equipment, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	52.8	(X)	64.8
34330 02	Heating equipment, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	14.5	(X)	8.8

See footnotes on next page.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A-1)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available.

¹The total for 1967 includes \$10.9 million of parts and attachments for warm air furnaces, now classified in industry 3585.

²These figures are from the Current Industrial Reports MA-34N and MA-35H for 1967. Separate statistics were not collected in the 1967 Census of Manufactures.

³Product code 34337 15 is included with product code 34337 98, "Other heating equipment," for 1972.

⁴Product codes 34337 38 and 34337 71 are included with product code 34337 98, "Other heating equipment," for 1967.

⁵Product code 34337 61 is included with product code 34337 98, "Other heating equipment," for both 1972 and 1967.

TABLE 6A-2. Production, Shipments, and Year-End Stocks of Metal Plumbing Fixtures: 1972 and 1967

1972 product code	Product	1972				1967			
		Quantity produced (units)	Quantity shipped (units)	Value of shipments (\$1,000)	Stocks, end of year ¹ (units)	Quantity produced (units)	Quantity shipped (units)	Value of shipments (\$1,000)	Stocks, end of year ¹ (units)
34310 12	Drinking Fountains:								
34310 13	Cast iron.....	14,541	11,651	396	2,238	43,525	43,653	1,458	3,092
34310 14	Steel.....								
	Aluminum and other metals.....								
34310 17	Lavatories:								
34310 18	Cast iron.....	1,672,458	1,701,356	27,288	185,532	1,853,878	1,876,074	22,131	203,070
34310 19	Steel.....	1,840,800	1,900,204	11,998	216,832	816,256	803,526	4,741	85,570
	Aluminum and other metals.....								
34310 36	Urinals:								
34310 39	Cast iron.....	4,716	5,138	320	725	8,918	8,738	345	1,562
	Aluminum and other metals.....								
34310 42	Kitchen Sinks:								
34310 46	Steel.....	4,636,236	4,620,399	59,123	489,923	2,194,300	2,208,601	32,736	279,923
34310 41	Porcelain enameled.....	2,045,770	2,109,987	19,072	293,914	1,182,002	1,184,114	12,287	223,491
34310 48	Stainless.....	2,590,466	2,510,412	40,051	196,009	1,012,298	1,024,487	20,449	56,432
32610 45	Cast iron.....	587,789	578,235	13,000	70,048	563,659	607,764	11,192	84,515
32610 46	Aluminum and other metals.....								
	Vitreous china.....								
	Glazed earthenware.....								
34310 52, 53, 55; 32610 52, 53, 55	Wash Sinks (Cast Iron, Steel, Concrete, and Other Nonmetals).....	19,282	18,265	4,335	5,227	83,541	81,992	4,728	9,814
34310 56	Service Sinks:								
34310 59	Cast iron.....	99,336	97,905	4,883	16,657	124,897	123,878	5,505	17,558
32610 56	Steel.....								
32610 57	Vitreous china.....								
	Glazed earthenware.....								
34310 61	Sink and Laundry Tray Combinations:								
34310 63	Cast iron.....	13,062	12,927	459	3,535	24,263	28,373	777	5,154
	Steel.....								
34310 66, 67, 68; 32610 66, 67, 68	Laundry Trays (Cast Iron, Vitreous China and Glazed Earthenware).....	28,556	28,455	752	3,688	32,455	33,780	869	4,866
34310 71	Bathtubs:								
34310 72	Cast iron.....	1,424,596	1,444,985	88,422	56,069	1,257,125	1,335,412	70,139	137,025
32610 72	Steel.....	1,794,674	1,807,872	51,834	122,913	758,623	757,805	19,958	56,928
	Glazed earthenware.....								
34310 75, 76, 77; 32610 75, 76, 77	Shower Receptors, Sold Separately (Cast Iron, Steel, and Nonmetal Other Than Vitreous China or Glazed Earthenware).....	(X)	(X)		(X)	(X)	(X)	499	(X)
34310 81, 83, 85; 32610 81, 83, 85	Shower Stalls, Including Receptors:			8,361					
	Steel, aluminum and other metals, and vitreous china.....	145,548	144,863		7,752	200,336	199,109	9,557	11,844

(X) Not applicable.

¹Figures are limited to inventories at manufacturing establishments.

Source: Current Industrial Report series MQ-34E, "Plumbing Fixtures."

TABLE 6A-3. Shipments and Inventory of Selected Nonelectric Heating Equipment: 1972 and 1967

1972 product code	Product	1972			1967		
		Shipments		Inventory, end of year	Shipments		Inventory, end of year
		Quantity	Value		Quantity	Value	
		(units)	(\$1,000)		(units)	(\$1,000)	(units)
34337 pt.	OIL BURNERS (BURNERS AND UNITS), TOTAL ^{1 2 3}	769,140	(X)	41,884	513,154	(X)	53,867
	Residential ³	725,742	(X)	40,420	483,444	(X)	52,515
	High-pressure atomizing.....	696,194	(X)	38,798	459,052	(X)	48,672
	All other ³	29,548	(X)	1,622	24,392	(X)	3,843
	Commercial and industrial ²	43,398	(X)	1,464	29,710	(X)	1,352
	Oil burners, sold separately ¹	640,339	57,653	(X)	396,692	30,834	(X)
	Residential.....	603,062	33,287	(X)	372,523	18,364	(X)
34337 03	High-pressure atomizing.....	603,062	33,287	(X)	361,948	17,726	(X)
34337 01	Low-pressure atomizing.....						
34337 05	Pot natural draft vaporizing.....						
34337 07	Pot mechanical draft vaporizing.....						
34337 08	Rotary (atomizing and vaporizing).....						
	Commercial and industrial.....	37,277	24,366	(X)	24,169	12,470	(X)
34337 25	Low-pressure atomizing.....	19,635	8,346	(X)	6,517	4,180	(X)
34337 27	High-pressure atomizing.....	17,199	15,002	(X)	16,387	6,596	(X)
34337 29	Rotary atomizing.....	443	1,018	(X)	1,265	1,694	(X)
	Furnace-burner units ^{1 2 3}	47,960	(X)	(X)	56,612	(X)	(X)
	Residential.....	47,960	(X)	(X)	56,612	(X)	(X)
34337 81	High-pressure atomizing.....	47,960	(X)	(X)	54,794	(X)	(X)
34337 82	All other ³	(D)	(X)	(X)	1,818	(X)	(X)
34337 83	Commercial and industrial ²	(D)	(X)	(X)	(D)	(X)	(X)
	Boiler-burner units ¹	80,841	(X)	(X)	59,850	(X)	(X)
	Residential.....	74,720	(X)	(X)	54,309	(X)	(X)
34337 73	High-pressure atomizing.....	56,421	(X)	(X)	42,310	(X)	(X)
34337 75	All other.....	18,299	(X)	(X)	11,999	(X)	(X)
34337 77	Commercial and industrial.....	6,121	(X)	(X)	5,541	(X)	(X)
3433 pt.	CAST-IRON BOILERS, RADIATORS, AND CONVECTORS.....	(X)	102,093	(X)	(X)	87,049	(X)
34333 20	Cast-iron boilers (quantity in thousands of pounds).....	162,944	97,136	(NA)	185,215	79,202	34,838
34333 30	Cast-iron radiators (quantity in thousand square feet of radiation).....	4,054	4,957	899	9,792	7,847	1,540
34333 50	Cast-iron convectors (quantity in thousand square feet of direct radiation).....						
34334 --	DOMESTIC HEATING STOVES.....	1,316,656	65,316	233,151	1,517,936	52,370	316,987
	Gas.....	890,840	43,448	180,256	919,984	31,278	213,521
34334 11	Vented circulators.....	461,134	34,337	97,574	311,640	20,539	80,840
34334 13	Unvented circulators.....	370,121	7,420	76,455	490,978	7,916	101,050
34334 15	Radiants.....	46,128	1,377	4,698	80,319	1,588	21,513
34334 17	All other (including laundry stoves).....	13,457	314	1,525	37,047	1,235	10,118
34334 27	Wood (sheet-metal airtight type).....	86,319	505	8,684	171,111	720	15,625
	Coal and wood (other than sheet-metal airtight types).....	141,882	7,620	12,998	155,331	6,667	23,017
34334 31	Circulators (standard and magazine types).....	23,548	1,854	5,079	31,618	2,477	8,874
34334 33	Magazine radiants.....	8,005	395				
34334 39	All other (including kitchen heaters, caboose, wood box, oaks, and hot blasts and laundry stoves).....	110,329	5,371	7,919	91,120	3,122	7,259
	Kerosene, gasoline, and fuel oil.....	197,615	13,743	31,213	271,510	13,705	64,824
34334 41	Flue-connected circulators and radiant circulators with vaporizing pot-type burners.....	114,219	12,229	23,676	115,191	9,613	36,554
34334 43	Flue-connected radiant heaters (without casing) and trailer heaters, equipped with vaporizing pot-type burners.....	83,396	1,514	7,537	51,061	2,951	9,196
34334 45	Flue-connected heater equipped with sleeve burner.....						
34334 47	Unvented portable kerosene heaters.....						
34337 pt.	OTHER HEATING EQUIPMENT (EXCEPT ELECTRIC).....	(X)	98,190	(X)	(X)	79,808	(X)
	Floor and wall furnaces.....	650,071	48,062	112,254	446,070	33,980	88,001
	Gas fired:						
34337 11	Floor furnaces (including dual register).....	39,148	3,828	2,905	47,123	3,775	8,178
34337 12	Wall furnaces, panel type.....	600,145	42,435	107,056	382,532	27,945	73,024
	Oil fired:						
34337 13	Floor furnaces (including dual register).....	10,778	1,799	2,290	10,290	1,494	3,389
34337 14	Wall furnaces, panel type.....						
	Gas fired unit heaters (400,000 Btu per hour and under).....	180,173	32,941	9,684	191,510	27,537	18,743
34337 37	Centrifugal fan type.....	10,587	4,842	754	12,022	3,066	941
34337 38	Propeller fan type.....	169,586	28,099	8,930	179,488	24,471	17,802
34337 39	Duct furnaces.....	32,716	8,628	3,095	33,459	5,572	2,968
34337 50	Range boilers.....	15,327	534	1,360	30,711	780	3,909
34337 53	Expansion tanks (including basement tanks).....	243,734	3,633	12,810	220,809	2,853	16,678
34337 55	Hot water storage tanks.....	20,726	3,601	1,126	29,704	5,645	1,557

See footnotes at end of table.

TABLE 6A-3. Shipments and Inventory of Selected Nonelectric Heating Equipment: 1972 and 1967—Continued

1972 product code	Product	1972			1967		
		Shipments		Inventory, end of year	Shipments		Inventory, end of year
		Quantity (units)	Value (\$1,000)		Quantity (units)	Value (\$1,000)	
34337 pt.	OTHER HEATING EQUIPMENT (EXCEPT ELECTRIC)—Continued						
	Mechanical stokers ⁴	306	791	115	2,959	3,441	670
	Class 1 (capacity under 61 lb of coal per hour):						
34337 56	Bituminous.....	230	69	108	1,191	246	47
34337 57	Anthracite:						
34337 62	Conversion stokers ⁵				1,021	673	576
	Integral units ⁶						
	Class 2 (capacity 61 to 100 lb of coal per hour):						
34337 63	Bituminous.....	76	722	7	258	92	21
34337 64	Anthracite.....				13	18	
34337 65	Class 3 (capacity 101 to 300 lb of coal per hour).....				273	181	18
34337 66	Class 4 (capacity 301 to 1,200 lb of coal per hour).....				134	152	8
	Class 5 (capacity 1,201 lb of coal per hour and over):						
34337 67	Installed under fire-tube boilers.....				3	11	
34337 68	Installed under water-tube boilers.....				66	2,068	

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures of individual companies.

¹If a plant manufactures an oil burner and combines it with a furnace of its own manufacture or with a furnace from another manufacturer, the data for this furnace burner device are reported under furnace burner units. In addition, the respondent reports the furnace of his own manufacture under warm-air furnaces. If a plant manufactures a furnace but combines it with a burner purchased from another manufacturer, the data for the furnace are reported under warm-air furnaces. In this case, the data for the oil burner have already been reported by the producer of the burner as oil burners sold separately. A similar situation exists in regard to the reporting of data for boiler-burner units and cast-iron boilers.

²Shipments of commercial and industrial furnace burner units (code 34337 83) are excluded to avoid disclosure of operations of individual companies.

³Shipments of "all other" residential furnace burner units (code 34337 82) are excluded to avoid disclosure of operations of individual companies.

⁴Mechanical stokers are classified by use as follows:

Class 1 for residential use.

Class 2 for small apartment house and small commercial heating jobs.

Class 3 for large apartment house and medium-sized commercial heating jobs.

Class 4 for large commercial and small high-pressure steam plants (small industrial).

Class 5 for high-pressure steam plant (large industrial).

⁵Conversion stoker—A conversion stoker is a mechanical stoker which may be installed in any of the common types of furnaces or boilers.

⁶Integral units—An integral unit consists of a boiler or furnace, an automatic coal-feeding mechanism, accessories, and usually a metal enclosure—the whole assembly having been designed as a complete, compact, and coordinate heating unit.

Source: Current Industrial Reports, series MA-34N, "Heating and Cooking Equipment."

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CAST IRON HEATING BOILERS, RADIATORS, CONVECTORS (34333)			DOMESTIC HEATING STOVES (EXCLUDING ELECTRIC AND PARTS) (34334)		
United States.....	152.5	133.3	United States.....	70.0	50.1
Northeast Region.....	118.5	101.8	North Central Region.....	33.8	24.1
New England Division.....	15.4	10.4	East North Central Division.....	FF	FF
Massachusetts.....	EE	6.1	Indiana.....	EE	AA
Connecticut.....	BB	4.3	Illinois.....	14.1	15.0
Middle Atlantic Division.....	103.0	91.4	Michigan.....	BB	AA
New York.....	55.6	43.6	Wisconsin.....	BB	BB
New Jersey.....	7.0	7.5			
Pennsylvania.....	40.5	40.3	South Region.....	33.0	FF
			South Atlantic Division.....	BB	BB
North Central Region.....	FF	21.9	Georgia.....	BB	BB
East North Central Division.....	FF	FF	East South Central Division.....	24.4	EE
Ohio.....	CC	BB	Kentucky.....	AA	AA
Indiana.....	EE	EE	Alabama.....	FF	6.1
			West South Central Division.....	BB	BB
South Region.....	CC	BB	Texas.....	BB	BB
South Atlantic Division.....	CC	BB			
Maryland.....	CC	BB	West Region.....	3.2	BB
Virginia.....	BB	BB	Pacific Division.....	BB	BB
South Carolina.....	BB	(NA)	California.....	BB	BB

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
STEEL HEATING BOILERS, 15 PSI AND UNDER, EXCEPT PARTS (34335)			OTHER HEATING EQUIPMENT AND PARTS ELECTRIC (34337)--Continued		
United States.....	68.7	67.0	North Central Region.....	282.2	178.4
Northeast Region.....	30.0	40.3	East North Central Division.....	240.7	149.9
Middle Atlantic Division.....	29.7	38.9	Ohio.....	49.0	(NA)
New Jersey.....	BB	6.7	Indiana.....	76.3	(NA)
Pennsylvania.....	26.8	27.3	Illinois.....	59.2	38.7
North Central Region.....	16.6	14.7	Michigan.....	34.1	(NA)
East North Central Division.....	EE	EE	Wisconsin.....	22.1	(NA)
Ohio.....	AA	(NA)	West North Central Division.....	41.5	28.6
Indiana.....	BB	BB	Minnesota.....	6.6	(NA)
Illinois.....	CC	EE	Iowa.....	CC	(NA)
West North Central Division.....	BB	AA	Missouri.....	5.0	(NA)
Minnesota.....	BB	(NA)	Nebraska.....	CC	(NA)
South Region.....	9.0	2.6	Kansas.....	15.2	(NA)
East South Central Division.....	CC	AA	South Region.....	134.0	75.2
Kentucky.....	AA	(NA)	South Atlantic Division.....	53.3	(NA)
Tennessee.....	BB	(NA)	Maryland.....	5.6	(NA)
Mississippi.....	BB	AA	Virginia.....	20.2	(NA)
West Region.....	13.2	9.3	North Carolina.....	EE	(NA)
Pacific Division.....	13.2	9.3	South Carolina.....	5.4	(NA)
California.....	13.2	9.3	Georgia.....	6.3	(NA)
OTHER HEATING EQUIPMENT AND PARTS ELECTRIC (34337) ¹			Florida.....	BB	(NA)
United States.....	565.5	414.9	East South Central Division.....	67.6	(NA)
Northeast Region.....	104.9	118.6	Kentucky.....	19.6	(NA)
New England Division.....	13.7	12.2	Tennessee.....	28.8	(NA)
Massachusetts.....	BB	(NA)	Alabama.....	EE	(NA)
Rhode Island.....	AA	(NA)	West South Central Division.....	13.1	(NA)
Connecticut.....	9.5	(NA)	Arkansas.....	AA	(NA)
Middle Atlantic Division.....	91.2	106.4	Texas.....	11.0	(NA)
New York.....	21.8	22.8	West Region.....	44.5	42.6
New Jersey.....	18.2	16.6	Mountain Division.....	1.5	(NA)
Pennsylvania.....	51.1	67.0	Pacific Division.....	43.0	(NA)
			Washington.....	AA	(NA)
			California.....	40.3	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9 CC.....\$5.0 to \$9.9 FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9 EE.....\$10.0 to \$19.9 GG.....\$50.0 and over

(NA) Not available.

¹The content of this product class differs in 1972 from 1967, such that parts and attachments for warm air furnaces have shifted to product code 35858 73 in 1972. This shifting out of 1972 product class 34337 represents approximately 3 percent of the total 1967 shipments at the U.S. level.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
34310	Metal plumbing fixtures.....	315.6	289.1	239.0	259.0	(S)	213.1	203.5	180.0
34320	Plumbing fittings and brass goods.....	673.2	553.0	465.2	471.3	442.1	404.6	329.6	259.5
3433	Heating equipment, except electric.....	924.0	729.4	742.3	810.8	734.4	738.9	688.8	604.4
34333	Cast iron heating boilers, radiators and convectors.....	152.5	122.5	122.6	156.1	158.6	133.3	138.9	121.5
34334	Domestic heating stoves (except electric and parts).....	70.0	66.5	62.6	62.0	66.9	50.1	79.1	69.8
34335	Steel heating boilers ¹ , 15 PSI and under, except parts.....	68.7	59.4	57.4	62.2	58.1	67.0	70.3	62.8
34337	Other heating equipment, except electric ²	565.5	433.1	452.4	471.3	401.5	414.9	359.3	314.6
34330	Heating equipment, except electric, n.s.k.....	67.3	47.9	47.3	59.2	(49.3)	73.6	41.2	35.7

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²The content of this product class differs in 1972 from 1971 and prior years, such that parts and attachments for warm air furnaces have shifted to product code 35858 73 in 1972. This shifting out of 1972 product class 34337 represents approximately 3 percent of the total 1967 shipments at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3431.--METAL SANITARY WARE					
	Materials, parts, containers, and supplies, total.....		(X)	¹ 136.3	(X)	84.6
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons	.3	.1	41.2	7.4
331012	Sheet and strip.....	..do.....	62.8	14.4		
331013	Plates.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....	22.5	6.1		
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	21.5	20.3	7.1	6.5
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	21.5	20.3	7.1	6.5
331050	All other.....	..do.....				
	Copper and copper base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb...	4.2	2.3	(D)	(D)
335143	Plate, sheet, and strip, including military cups and discs...	..do.....				
335152	Pipe and tube.....	..do.....				
	Aluminum and aluminum-base alloy:					
335405	Extruded shapes, rod, pipe, etc.....	..do.....	(D)	(D)	.4	.2
335008	All other aluminum mill shppes and forms (wire, rolled rod, sheet, plate, foil, etc.).....	..do.....	-	-		
	Primary metals:					
331051	Pig iron.....	1,000 s. tons	54.5	4.2	45.0	2.7
333401	Aluminum and aluminum-base alloy refinery shapes, (ingot, slugs, etc.).....	..do.....	-	-	(Z)	(Z)
333122	Copper and copper-base alloy refinery shapes.....	..do.....	(D)	(D)	(D)	(D)
	Scrap (excluding home scrap):					
999811	Iron and steel.....	..do.....	192.2	7.5	196.2	7.0
	Castings (rough and semifinished): ²					
332011	Iron (gray and malleable) ¹.....	..do.....	(D)	(D)	(D)	(D)
332045	Steel.....	..do.....	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb...	(D)	(D)	(D)	(D)
336200	Copper and copper-base alloy.....	..do.....	7.1	4.8	(D)	(D)
346200	Iron and steel forgings ²	1,000 s. tons	(D)	(D)	-	-
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	51.9	(X)	¹ 45.2
976000	Materials, n.s.k. ³		(X)	14.3	(X)	15.5
	INDUSTRY 3432.--PLUMBING FITTINGS AND BRASS GOODS					
	Materials, parts, containers, and supplies, total.....		(X)	¹ 332.6	(X)	194.5
	Mill shapes and forms (except castings):					
	Carbon steel:					
331012	Sheet and strip.....	1,000 s. tons.	35.7	14.1	7.3	2.3
331013	Plates.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	35.7	14.1	7.3	2.3
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	(D)	(D)	(D)	(D)
331050	All other.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)	(D)	(D)	(D)
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	100.2	46.4	64.0	27.8
335143	Plate, sheet, and strip (including military cups and discs)..	..do.....	20.2	12.3	7.4	4.5
335152	Pipe and tube.....	..do.....	40.3	30.1	23.6	15.0
	Aluminum and aluminum-base alloy:					
335405	Extruded shapes, rod, bar, etc.....	..do.....	(NA)	1.7	(NA)	.2
335008	All other aluminum mill shapes and forms (wire, rolled, bar, sheet, plate, foil, etc.).....	..do.....				
	Primary metals:					
331051	Pig iron.....	1,000 s. tons.	(D)	(D)	-	-
333401	Aluminum and aluminum-base alloy refinery shapes.....	..do.....	(D)	(D)	(Z)	(Z)
333122	Copper and copper-base alloy refinery shapes.....	..do.....	(NA)	15.5	(NA)	16.4

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 3432.--PLUMBING FITTINGS AND BRASS GOODS--Con.						
Scrap (excluding home scrap):						
999811	Iron and steel.....	...do.....	(D)	(D)	(D)	(D)
999812	Copper and copper-base alloy.....	...do.....	(D)	(D)	(D)	(D)
Castings (rough and semifinished): ²						
332011	Iron (gray and malleable).....	...do.....	5.6	2.5	3.1	1.2
332045	Steel.....	...do.....	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(D)	(D)
336200	Copper and copper-base alloy.....	...do.....	47.6	40.3	30.6	19.3
346200	Iron and steel forgings ²	1,000 s. tons.	(D)	(D)	-	-
970099	All other materials, and components, parts, containers, and supplies consumed.....	.....	(X)	119.1	(X)	188.1
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. ³.....	.....	(X)	46.8	(X)	19.7
Unit of measure			1972			
			Quantity	Delivered cost		
				(million dollars)		
INDUSTRY 3433.--HEATING EQUIPMENT, EXCEPT ELECTRIC						
Materials, parts, containers, and supplies, total.....					(X)	472.2
Mill shapes and forms, except castings:						
Carbon steel:						
331011	Bars and bar shapes.....	1,000 s. tons.....		9.3		2.5
331012	Sheet and strip.....	...do.....		218.4		44.1
331013	Plates.....	...do.....		16.1		3.6
331015	Structural shapes.....	...do.....		5.2		1.2
331017	Wire and wire products.....	...do.....		3.4		1.0
331019	All other carbon steel mill shapes and forms.....	...do.....		18.4		6.5
331020	Alloy steel, except stainless.....	...do.....		6.8		2.5
Stainless steel:						
331033	Sheet and strip.....	...do.....		5.7		6.9
331050	All other.....	...do.....		1.0		1.4
Copper and copper-base alloy:						
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....		2.4		1.8
335143	Plate, sheet, and strip (including military cups and discs)...	...do.....		.7		.7
335152	Pipe and tube.....	...do.....		22.6		17.9
Aluminum and aluminum-base alloy:						
335301	Sheet, plate, and foil.....	...do.....		35.0		14.8
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, etc.).....	...do.....		5.1		2.6
331051	Pig iron.....	1,000 s. tons.....		26.3		2.0
999811	Iron and steel scrap (excluding home scrap).....	...do.....		95.5		3.9
Castings (rough and semifinished): ²						
332011	Iron (gray and malleable).....	...do.....		25.0		10.8
336100	Aluminum and aluminum-base alloy.....	Million lb.....		1.6		2.3
336200	Copper and copper-base alloy.....	...do.....		1.2		1.4
Electric motors and generators:						
Fractional horsepower electric motors (under 1 hp.)						
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....		(NA)		3.1
362115	Other fractional horsepower electric motors.....	...do.....		1,583.4		17.2
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....		31.1		2.8
Bearings:						
356218	Ball.....	.....		(X)		.2
356201	Roller.....	.....		(X)		.1
382201	Automatic temperature controls (thermostats, regulators, etc.)...	.....		(X)		26.3
970099	All other materials and components, parts, containers, and supplies.....	.....			(X)	218.9
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. ³.....	.....			(X)	75.7

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown.

¹Includes cost for materials indicated by the symbol (D).²Data are not available for castings or forgings produced and consumed in the same establishment except for iron castings which totaled 182.0 thousand short tons in 1967.³This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3431.--METAL SANITARY WARE					
	Purchased fuels and electric energy.....		(X)	7.6	(X)	6.2
	Purchased fuels, total.....		(X)	4.8	(X)	4.2
121005	Coal.....	1,000 s. tons....	40.6	.6	10.8	.3
331212	Coke.....	...do.....	(S)	1.5	34.9	1.1
	Fuel oil, total.....	1,000 bbl (42 gal)	30.9	.2	74.4	.3
291141	Distillate.....	...do.....	24.2	.1	(D)	(D)
291151	Residual.....	...do.....	6.7	(Z)	(D)	(D)
131300	Natural gas.....	Billion ft ³	4.2	2.4	4.5	2.2
960011	Other fuels.....		(X)	(Z)	(X)	-
975000	Fuels, n.s.k.....		(X)	.1	(X)	.3
960012	Purchased electric energy.....	Million kWh.....	212.1	2.8	176.6	2.0
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	11.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.3	-	2.2	-
	INDUSTRY 3432.--PLUMBING FITTINGS AND BRASS GOODS					
	Purchased fuels and electric energy.....		(X)	4.5	(X)	(NA)
	Purchased fuels, total.....		(X)	1.6	(X)	(NA)
121005	Coal.....	1,000 s. tons....	1.9	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	31.1	.2	(NA)	(NA)
291141	Distillate.....	...do.....	12.2	.1	(NA)	(NA)
291151	Residual.....	...do.....	19.0	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	1.7	1.0	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	229.8	2.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.0	-	(NA)	(NA)
	INDUSTRY 3433.--HEATING EQUIPMENT, EXCEPT ELECTRIC					
	Purchased fuels and electric energy.....		(X)	10.4	(X)	(NA)
	Purchased fuels, total.....		(X)	5.0	(X)	(NA)
121005	Coal.....	1,000 s. tons....	13.3	.2	(NA)	(NA)
331212	Coke.....	...do.....	(S)	.7	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	185.9	.8	(NA)	(NA)
291141	Distillate.....	...do.....	107.5	.5	(NA)	(NA)
291151	Residual.....	...do.....	78.4	.3	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	4.2	2.3	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.7	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	404.0	5.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.7	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

Fabricated Structural Metal Products

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EXPLANATORY TEXT

FABRICATED STRUCTURAL METAL PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3441—Fabricated Structural Metal
- 3442—Metal Doors, Sash, Frames, Molding, and Trim*
- 3443—Fabricated Platework (Boiler Shops)
- 3444—Sheet Metalwork
- 3446—Architectural and Ornamental Metalwork*
- 3448—Prefabricated Metal Buildings and Components*
- 3449—Miscellaneous Metalwork

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3441.—FABRICATED STRUCTURAL METAL

This industry comprises establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, such as bridges, buildings, and sections for ships, boats, and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in industry 3442; and establishments doing fabrication work at the site of construction are classified in construction industries. For a detailed list of products of industry 3441, refer to table 6A, product codes 34411 21 to 34413 98.

*Note that the "short title" for this industry is used throughout the report.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Fabricated Structural Metal Industry in 1972 totaled \$3,920 million. This included shipments of fabricated structural metal (primary products) valued at \$3,106 million, shipments of other products (secondary products) valued at \$380 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$433 million.

Shipments of fabricated structural metal (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 89 percent. Secondary products shipped by this industry in 1972 consisted mainly of fabricated platework at \$102 million.

Shipments of fabricated structural metal (primary products) from establishments classified in industry 3441 in 1972 represented 93 percent (coverage ratio) of these products valued at \$3,306 million shipped by all industries. In 1967, the coverage ratio was 91 percent. Other industries shipping fabricated structural metal consisted mainly of industry 3443, Fabricated Platework (Boiler Shops), (\$31 million); industry 3446, Architectural Metalwork, (\$17 million); and industry 3444, Sheet Metalwork, (\$14 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3441, these establishments accounted for 8 percent of value of shipments.

INDUSTRY 3442—METAL DOORS, SASH, AND TRIM (Short Title)

This industry comprises establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal covered doors and sash, window and door frames and screens, molding, and trim. For a detailed list of products of industry 3442, refer to table 6A, product codes 34421 05 to 34425 51.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Metal Doors, Sash, and Trim Industry in 1972 totaled \$2,078 million. This included shipments of metal doors, sash, and trim (primary products) valued at \$1,742 million, shipments of other products (secondary products) valued at \$187 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$148 million.

Shipments of metal doors, sash, and trim (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent. Secondary products shipped by this industry in 1972 consisted mainly of sheet metalwork at \$55 million.

Shipments of metal doors, sash, and trim (primary products) from establishments classified in industry 3442 in 1972 represented 91 percent (coverage ratio) of these products valued at \$1,903 million shipped by all industries. In 1967, the coverage ratio was 94 percent. Other industries shipping metal doors, sash, and trim consisted mainly of industry 3354, Aluminum Extruded Products, at \$40 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3442, these establishments accounted for 13 percent of value of shipments.

INDUSTRY 3443.—FABRICATED PLATEWORK (BOILER SHOPS)

This industry comprises establishments primarily engaged in manufacturing power and marine boilers, pressure and non-pressure tanks, processing and storage vessels, heat exchangers, weldments, and similar products by the process of cutting, forming, and joining metal plates, shapes, bars, sheet, pipe mill products, and tubing to custom or standard design for factory or field assembly. Establishments primarily engaged in manufacturing warm-air heating furnaces are classified in industry 3585, other nonelectric heating apparatus except power boilers in industry 3433, and household cooking apparatus in industry 3631. For a detailed list of products of industry 3443, refer to table 6A, product codes 34431 11 to 34439 59.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Fabricated Platework (Boiler Shops) Industry in 1972 totaled \$3,338

million. This included shipments of fabricated platework (primary products) valued at \$2,850 million, shipments of other products (secondary products) valued at \$248 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$240 million.

Shipments of fabricated platework (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent. Secondary products shipped by this industry in 1972 consisted mainly of fabricated structural metal at \$31 million.

Shipments of fabricated platework (primary products) from establishments classified in industry 3443 in 1972 represented 87 percent (coverage ratio) of these products valued at \$3,266 million shipped by all industries. In 1967, the coverage ratio was 85 percent. Other industries shipping fabricated platework consisted mainly of industry 3441, Fabricated Structural Metal, at \$102 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3443, these establishments accounted for 4 percent of value of shipments.

INDUSTRY 3444.—SHEET METALWORK

This industry comprises establishments primarily engaged in manufacturing sheet metalwork for buildings (not including fabrication work done by construction contractors at the place of construction) and manufacturing sheet metal stovepipes, light tanks, etc. For a detailed list of products of industry 3444, refer to table 6A, product codes 34442 13 to 3446 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Sheet Metalwork Industry in 1972 totaled \$2,680 million. This included shipments of sheet metalwork (primary products) valued at \$2,236 million, shipments of other products (secondary products) valued at \$246 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$199 million.

Shipments of sheet metalwork (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 88 percent.

Shipments of sheet metalwork (primary products) from establishments classified in industry 3444 in 1972 represented 84 percent (coverage ratio) of these products valued at \$2,651 million shipped by all industries. In 1967, the coverage ratio was 83 percent. Other industries shipping sheet metalwork consisted mainly of industry 3353, Aluminum Sheet, Plate, and Foil, at \$71 million; industry 3441, Fabricated Structural Metal, at \$62 million; industry 3312, Blast Furnaces and Steel Mills, at \$60 million; and industry 3442, Metal Doors, Sash, and Trim, at \$55 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3444, these establishments accounted for 11 percent of value of shipments.

INDUSTRY 3446.—ARCHITECTURAL METALWORK (Short Title)

This industry comprises establishments primarily engaged in manufacturing architectural and ornamental metalwork of ferrous and nonferrous metals, such as stairs and staircases, open steel flooring (grating), fire escapes, grilles, railings, and fences and gates, except those made from wire. Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts are classified in industry 3448 and miscellaneous metalwork in industry 3449. For a detailed list of products of industry 3446, refer to table 6A, product codes 34460 11 to 34460 61.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Architectural Metalwork Industry in 1972 totaled \$574 million. This included shipments of architectural metalwork (primary products) valued at \$478 million, shipments of other products (secondary products) valued at \$62 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$33 million.

Shipments of architectural metalwork (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of fabricated structural metal at \$17 million.

Shipments of architectural metalwork (primary products) from establishments classified in industry 3446 in 1972 repre-

sented 81 percent (coverage ratio) of these products valued at \$589 million shipped by all industries. In 1967, the coverage ratio was 77 percent. Other industries shipping architectural and ornamental metalwork consisted mainly of industry 3441, Fabricated Structural Metal, at \$47 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3446, these establishments accounted for 20 percent of value of shipments.

INDUSTRY 3448.—PREFABRICATED METAL BUILDINGS (Short Title)

This industry comprises establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts, and prefabricated exterior metal panels. For a detailed list of products of industry 3448, refer to table 6A, product codes 34481 14 to 34482 55.

Because of revisions in the Standard Industrial Classification (SIC) for 1972, the Prefabricated Metal Buildings Industry became a separate industry in 1972. Under the 1967 SIC, the statistics for industry 3448 were included in the statistics for industry 3449, Miscellaneous Metalwork.

Value of shipments and other receipts of the Prefabricated Metal Buildings Industry in 1972 totaled \$623 million. This included shipments of prefabricated metal buildings and parts (primary products) valued at \$522 million, shipments of other products (secondary products) valued at \$65 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$36 million.

Shipments of prefabricated metal buildings and parts (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of sheet metalwork at \$18 million.

Shipments of prefabricated metal buildings and parts (primary products) from establishments classified in industry 3448 in 1972 represented 90 percent (coverage ratio) of these products valued at \$579 million shipped by all industries. Other industries shipping prefabricated metal buildings consisted mainly of industry 3441, Fabricated Structural Metal, at \$18 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at

the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3448, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3449.—MISCELLANEOUS METALWORK

This industry comprises establishments primarily engaged in manufacturing miscellaneous ferrous and nonferrous metalwork, such as metal plaster bases, fabricated bar joists, and concrete reinforcing bars. For a detailed list of products of industry 3449, refer to table 6A, product codes 34494 42 to 34495 79.

Value of shipments and other receipts of the Miscellaneous Metalwork Industry in 1972 totaled \$980 million. This included shipments of miscellaneous metalwork (primary products) valued at \$764 million, shipments of other products (secondary products) valued at \$68 million, and miscellaneous

receipts (mainly resales of products bought and resold without further manufacture) of \$148 million.

Shipments of miscellaneous metalwork (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of metal doors, sash, and trim, at \$11 million.

Shipments of miscellaneous metalwork (primary products) from establishments classified in industry 3449 in 1972 represented 76 percent (coverage ratio) of these products valued at \$995 million shipped by all industries. Other industries shipping miscellaneous metalwork consisted mainly of industry 3312, Blast Furnaces, and Steel Mills, at \$88 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3449, these establishments accounted for 14 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3441.--FABRICATED STRUCTURAL METAL															
1972 Census	2,154	1,094	104.3	975.5	76.9	152.3	635.4	1,730.7	2,199.9	3,920.1	74.7	(NA)	828.5	89	93
1971 ASM	(NA)	(NA)	96.3	848.2	71.3	143.5	559.6	1,595.8	1,839.5	3,397.9	49.2	906.2	793.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	100.0	835.2	74.0	150.0	548.2	1,459.0	1,719.1	3,162.2	59.8	904.5	715.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	104.5	827.4	77.3	157.7	545.0	1,411.2	1,654.9	3,055.9	50.0	788.9	663.1	(NA)	(NA)
1968 ASM	(NA)	(NA)	104.4	793.5	77.5	157.9	518.2	1,344.8	1,642.1	2,993.0	61.0	801.9	615.3	(NA)	(NA)
1967 Census	1,960	1,035	107.5	773.6	80.1	163.6	509.9	1,319.3	1,624.6	2,967.8	76.6	767.8	599.8	89	91
1966 ASM	(NA)	(NA)	97.4	665.2	73.4	148.5	443.8	1,059.7	1,498.6	2,601.7	*46.1	(NA)	614.4	(NA)	(NA)
1965 ASM	(NA)	(NA)	93.1	609.7	69.8	141.6	405.2	1,038.7	1,357.2	2,314.5	54.9	(NA)	659.3	(NA)	(NA)
1964 ASM	(NA)	(NA)	88.1	562.1	65.5	134.9	376.1	877.2	1,252.8	2,097.7	37.9	549.7	531.1	(NA)	(NA)
1963 Census	1,718	817	85.4	527.2	63.7	127.9	350.3	814.8	1,141.0	1,916.0	28.2	518.1	497.9	86	89
1962 ASM	(NA)	(NA)	79.2	483.6	59.0	121.5	315.8	697.8	1,065.5	1,795.1	19.2	493.0	429.8	(NA)	(NA)
1961 ASM	(NA)	(NA)	84.3	494.9	62.4	126.4	321.6	776.1	1,038.0	1,814.1	25.2	(NA)	463.4	(NA)	(NA)
1960 ASM	(NA)	(NA)	87.9	510.0	63.9	133.4	326.4	820.0	1,070.2	1,834.5	27.2	(NA)	473.1	(NA)	(NA)
1959 ASM	(NA)	(NA)	82.7	462.5	59.9	119.9	290.6	702.0	970.3	1,710.5	28.4	(NA)	418.2	(NA)	(NA)
1958 Census	1,861	780	91.3	502.7	68.0	135.8	332.7	821.6	1,017.7	1,901.1	37.7	(NA)	465.5	87	91
INDUSTRY 3442.--METAL DOORS, SASH, AND TRIM															
1972 Census	1,558	646	70.7	520.8	53.0	104.2	330.3	1,003.7	1,085.0	2,077.6	52.1	(NA)	309.4	90	91
1971 ASM	(NA)	(NA)	63.0	442.0	47.0	91.6	275.6	854.1	926.2	1,768.1	42.4	382.9	275.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	62.3	416.3	45.9	89.8	259.4	765.5	803.4	1,546.5	*43.3	*384.6	251.2	(NA)	(NA)
1969 ASM	(NA)	(NA)	63.4	414.5	47.7	93.5	256.5	734.8	803.6	1,539.1	28.4	310.2	223.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	62.4	386.1	47.0	91.7	242.1	707.2	780.2	1,473.7	22.7	315.0	217.0	(NA)	(NA)
1967 Census	1,646	597	63.9	378.5	47.9	94.8	235.7	651.1	764.6	1,413.6	24.3	316.2	208.9	91	94
1966 ASM	(NA)	(NA)	63.8	360.5	46.3	96.8	222.0	638.5	767.1	1,397.2	24.9	(NA)	216.8	(NA)	(NA)
1965 ASM	(NA)	(NA)	63.7	348.1	45.4	96.4	213.1	607.5	725.9	1,323.4	25.0	(NA)	194.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	63.1	333.7	45.5	93.2	203.9	568.7	704.0	1,271.3	21.1	285.2	183.6	(NA)	(NA)
1963 Census	1,817	628	62.8	324.8	46.6	95.7	206.1	570.4	681.4	1,253.8	21.3	271.8	180.0	88	94
1962 ASM	(NA)	(NA)	59.3	307.1	43.4	96.1	189.1	541.3	636.5	1,172.9	23.7	253.5	158.9	(NA)	(NA)
1961 ASM	(NA)	(NA)	57.8	284.7	42.3	91.2	144.6	489.8	607.3	1,100.7	17.6	(NA)	150.9	(NA)	(NA)
1960 ASM	(NA)	(NA)	61.6	299.9	44.8	94.4	183.9	506.0	612.6	1,126.8	19.3	(NA)	159.4	(NA)	(NA)
1959 ASM	(NA)	(NA)	59.8	287.0	44.0	89.3	176.6	500.1	635.4	1,139.2	*20.0	(NA)	169.6	(NA)	(NA)
1958 Census	1,546	560	57.9	273.2	42.4	83.8	171.8	469.0	570.8	1,037.4	18.1	(NA)	161.8	91	93
INDUSTRY 3443.--FABRICATED PLATEWORK (BOILER SHOPS)															
1972 Census	1,486	795	92.9	893.3	67.9	133.5	593.1	1,758.4	1,632.8	3,338.5	77.3	(NA)	643.0	92	87
1971 ASM	(NA)	(NA)	97.2	892.3	68.5	136.6	557.4	1,877.5	1,568.5	3,462.7	72.2	1,116.2	675.3	(NA)	(NA)
1970 ASM	(NA)	(NA)	99.6	839.8	72.9	148.2	557.8	1,859.8	1,588.8	3,401.9	76.9	1,056.3	653.7	(NA)	(NA)
1969 ASM	(NA)	(NA)	101.3	818.0	73.9	151.1	531.8	1,482.8	1,438.1	2,900.6	94.2	905.1	624.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	97.5	744.5	71.8	146.3	489.8	1,431.0	1,401.0	2,736.6	89.0	817.2	605.3	(NA)	(NA)
1967 Census	1,465	784	96.4	700.4	73.1	150.4	477.5	1,393.4	1,303.9	2,688.5	81.9	781.2	510.6	91	85
1966 ASM	(NA)	(NA)	90.9	631.7	67.5	139.8	419.9	1,181.2	1,188.3	2,323.2	62.1	(NA)	464.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	84.1	559.2	62.5	129.0	374.5	1,006.7	1,037.7	2,000.2	45.5	(NA)	419.5	(NA)	(NA)
1964 ASM	(NA)	(NA)	76.2	497.9	56.4	116.6	334.4	847.6	901.2	1,744.4	39.2	630.7	337.4	(NA)	(NA)
1963 Census	1,383	601	75.0	465.4	54.6	111.4	310.5	770.1	860.6	1,623.0	32.9	598.6	319.5	89	83
1962 ASM	(NA)	(NA)	72.9	449.8	51.4	104.1	286.1	672.7	801.0	1,499.6	31.5	558.4	257.3	(NA)	(NA)
1961 ASM	(NA)	(NA)	76.6	456.2	53.9	107.3	289.8	669.2	808.5	1,477.4	21.2	(NA)	299.5	(NA)	(NA)
1960 ASM	(NA)	(NA)	79.9	468.7	56.4	113.2	299.9	677.6	843.5	1,521.7	29.4	(NA)	302.6	(NA)	(NA)
1959 ASM	(NA)	(NA)	83.2	473.2	58.2	116.3	298.6	716.8	836.5	1,591.0	40.3	(NA)	323.8	(NA)	(NA)
1958 Census	1,252	557	90.6	497.1	64.7	127.2	323.2	755.0	879.4	1,670.0	45.0	(NA)	363.5	89	83
INDUSTRY 3444.--SHEET METALWORK															
1972 Census	3,116	932	74.0	678.9	55.6	108.6	454.3	1,302.3	1,397.0	2,680.2	59.2	(NA)	403.0	90	84
1971 ASM	(NA)	(NA)	61.5	527.2	45.4	90.6	354.2	973.4	945.2	1,925.4	43.1	459.1	298.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	63.6	535.4	47.9	95.4	355.5	1,017.9	953.4	1,970.7	42.5	467.1	292.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	70.7	565.7	54.7	109.0	386.3	1,009.4	1,019.0	2,044.3	48.7	484.9	295.2	(NA)	(NA)
1968 ASM	(NA)	(NA)	68.4	515.8	52.6	104.3	349.1	938.4	967.2	1,897.1	45.9	484.7	293.3	(NA)	(NA)
1967 Census	3,054	811	68.1	490.7	52.9	105.8	336.0	889.3	927.5	1,812.4	44.4	456.7	254.2	88	83
1966 ASM	(NA)	(NA)	71.9	501.8	56.3	115.3	349.0	883.1	950.5	1,834.8	40.7	(NA)	268.3	(NA)	(NA)
1965 ASM	(NA)	(NA)	66.4	428.9	52.0	109.0	299.9	753.5	839.3	1,577.9	33.8	(NA)	224.6	(NA)	(NA)
1964 ASM	(NA)	(NA)	62.9	395.3	78.7	101.1	278.4	693.2	702.1	1,385.4	28.6	348.1	197.5	(NA)	(NA)
1963 Census	3,250	755	61.7	373.3	78.0	97.1	264.7	632.4	669.8	1,303.7	26.2	327.0	189.1	88	78
1962 ASM	(NA)	(NA)	64.4	382.7	49.2	103.7	263.1	615.2	669.1	1,280.5	31.7	302.3	178.9	(NA)	(NA)
1961 ASM	(NA)	(NA)	62.6	354.8	77.5	99.5	240.0	581.1	629.0	1,203.8	24.1	(NA)	177.4	(NA)	(NA)
1960 ASM	(NA)	(NA)	61.2	342.8	46.2	97.6	231.6	569.4	615.4	1,179.8	25.7	(NA)	166.8	(NA)	(NA)
1959 ASM	(NA)	(NA)	61.6	344.3	47.1	97.2	228.6	584.1	616.8	1,195.0	*22.5	(NA)	161.1	(NA)	(NA)
1958 Census	3,158	698	58.8	307.9	44.4	86.1	210.9	516.1	567.6	1,077.8	22.3	(NA)	148.4	88	82

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3446.--ARCHITECTURAL METALWORK															
1972 Census.....	1,459	250	20.9	175.4	15.6	29.5	108.7	311.8	269.6	573.7	17.0	(NA)	93.0	88	81
1971 ASM	(NA)	(NA)	17.7	137.1	13.6	25.8	88.7	258.5	204.2	460.0	20.8	121.3	69.2	(NA)	(NA)
1970 ASM	(NA)	(NA)	20.6	149.6	16.3	31.8	99.7	254.4	230.2	489.3	10.9	126.9	73.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	20.7	140.5	16.7	30.7	92.7	264.0	233.2	491.8	* 12.2	118.6	81.2	(NA)	(NA)
1968 ASM	(NA)	(NA)	19.2	126.4	15.5	28.5	82.3	233.0	243.6	470.0	7.5	107.1	70.2	(NA)	(NA)
1967 Census.....	1,377	198	19.3	123.0	15.4	29.5	81.5	232.6	254.6	484.9	7.4	101.5	60.0	83	77
1966 ASM	(NA)	(NA)	17.5	107.7	13.8	28.0	76.5	191.9	153.3	342.0	* 8.9	(NA)	37.6	(NA)	(NA)
1965 ASM	(NA)	(NA)	16.9	99.7	13.1	27.8	69.5	172.3	145.5	313.1	* 7.7	(NA)	39.9	(NA)	(NA)
1964 ASM	(NA)	(NA)	14.8	86.4	11.8	23.5	61.3	156.1	135.6	292.1	* 8.5	65.2	54.0	(NA)	(NA)
1963 Census ²	1,334	173	15.6	87.0	12.5	24.2	60.6	148.8	119.3	269.3	6.1	59.0	39.4	86	71
1958 Census ²	1,343	(NA)	21.0	111.0	16.0	31.6	74.2	180.9	145.1	322.4	6.5	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3448.--PREFABRICATED METAL BUILDINGS															
1972 Census.....	159	88	12.2	107.0	8.9	17.6	69.0	279.6	338.6	622.6	11.3	(NA)	103.8	89	90
INDUSTRY 3449.--MISCELLANEOUS METALWORK															
1972 Census ³	418	220	19.5	178.8	13.1	25.6	102.2	362.2	619.0	980.4	26.2	(NA)	152.3	91	76
1967 INDUSTRY 3449.--MISCELLANEOUS METALWORK (1972 SIC INDUSTRIES 3448 AND 3449)															
1972 Census ^{3 4}	577	308	31.7	285.8	22.0	43.2	171.2	641.8	957.6	1,603.0	37.5	(NA)	256.1	(NA)	(NA)
1971 ASM	(NA)	(NA)	35.2	297.4	24.0	48.7	181.4	677.1	948.6	1,601.6	30.9	351.5	291.1	(NA)	(NA)
1970 ASM	(NA)	(NA)	36.7	275.8	25.0	49.1	165.4	588.5	857.4	1,444.6	30.1	350.4	244.4	(NA)	(NA)
1969 ASM	(NA)	(NA)	36.0	258.9	25.8	51.2	160.0	549.9	798.9	1,334.0	35.0	300.5	228.1	(NA)	(NA)
1968 ASM	(NA)	(NA)	33.5	236.5	23.5	47.2	144.1	473.3	678.6	1,145.2	30.5	249.3	192.4	(NA)	(NA)
1967 Census.....	649	280	32.7	220.7	23.2	47.4	137.4	448.6	637.2	1,082.0	23.0	232.2	181.9	89	77
1966 ASM	(NA)	(NA)	30.1	200.3	20.7	44.6	121.4	415.9	616.8	1,014.5	19.4	(NA)	180.5	(NA)	(NA)
1965 ASM	(NA)	(NA)	27.3	169.5	18.5	39.0	98.9	360.2	501.9	859.0	13.4	(NA)	149.2	(NA)	(NA)
1964 ASM	(NA)	(NA)	25.8	153.1	14.0	34.2	91.7	315.8	443.3	759.7	13.3	184.8	115.8	(NA)	(NA)
1963 Census ⁵	697	246	25.0	145.0	17.0	34.5	68.8	283.4	420.9	704.2	11.5	176.3	109.9	89	68
1958 Census ⁵	248	(NA)	21.2	113.8	14.8	30.4	68.4	220.1	371.4	594.7	9.4	(NA)	(NA)	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 Industry 3441	1972 Industry 3442	1972 Industry 3443	1972 Industry 3444	1972 Industry 3446	1972 Industry 3448	1972 Industry 3449	1967 Industry 3449
1972.....	2010	1391	1349	2960	1430	143	336	(X)
1967.....	1865	1540	1346	2942	1360	(X)	(X)	549
1963.....	1636	1712	1301	3139	1362	(X)	(X)	647

Although 1967 industry 3449 is a combination of 1972 industries 3448 and 3449, the number of companies is not separately available for 1972 on the old SIC basis.

(X) Not applicable. (NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²Prior to 1963, this industry was part of SIC 3449. Accordingly, data for individual years prior to 1963 are not available. However, data were published in the 1958 Census of Manufactures for plants classified in SIC 3449 specializing in shipments of architectural metalwork. This is the source of the data for 1958 for this industry.

³The data are not strictly comparable with 1971 and prior years because of a revision in the 1972 Standard Industrial Classification.

⁴For 1972, these statistics are the combined totals for new industries 3448 and 3449. For 1971 and prior years, the statistics are totals for industry 3449 as classified on the old SIC basis. Because of changes in the product mix for several plants classified in these industries, the combined establishment count for industries 3448 and 3449 on the new SIC basis is not necessarily identical to the establishment count for industry 3449 on the old SIC basis (see table 1C). However, the effect of these changes is estimated to be less than one percent of the total value of shipments for industries 3448 and 3449 combined in 1972.

⁵Prior to 1963, this industry included, industry 3446, Architectural Metalwork. However, separate data were published in the 1958 census for plants specializing in the production of ornamental and structural metalwork. This is the source of the separate data for 1958.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3441.--FABRICATED STRUCTURAL METAL											
1972 Census.....	9,351	(NA)	74	1,982	4.17	.56	.81	(NA)	16,589	56	11.36
1971 ASM.....	8,808	9,410	74	2,013	3.90	.54	.79	.27	16,571	53	11.12 ²
1970 ASM.....	8,352	9,050	74	2,027	3.66	.54	.81	.29	14,590	57	9.73
1969 ASM.....	7,918	7,550	74	2,040	3.46	.54	.81	.26	13,504	59	8.95
1968 ASM.....	7,601	7,680	74	2,037	3.28	.55	.81	.27	12,881	59	8.52
1967 Census.....	6,825	7,140	75	2,041	3.12	.55	.79	.26	12,274	56	8.07
1966 ASM.....	6,827	(NA)	75	2,022	2.99	.58	.83	(NA)	10,876	63	7.14
1965 ASM.....	6,551	(NA)	75	2,028	2.86	.59	.85	(NA)	11,162	59	7.34
1964 ASM.....	6,377	6,240	74	2,059	2.79	.60	.87	.26	9,951	64	6.50
1963 Census.....	6,172	6,070	75	2,009	2.74	.60	.87	.27	9,538	65	6.37
1962 ASM.....	6,104	6,220	75	2,059	2.60	.59	.86	.27	8,809	69	5.74
1961 ASM.....	5,869	(NA)	74	2,026	2.54	.57	.85	(NA)	9,204	64	6.14
1960 ASM.....	5,805	(NA)	73	2,087	2.45	.58	.86	(NA)	9,333	62	6.15
1959 ASM.....	5,591	(NA)	72	2,004	2.42	.57	.84	(NA)	8,487	66	5.85
1958 Census.....	5,509	(NA)	75	1,996	2.45	.54	.80	(NA)	9,004	61	6.05
INDUSTRY 3442.--METAL DOORS, SASH, AND TRIM											
1972 Census.....	7,371	(NA)	75	1,967	3.17	.52	.77	(NA)	14,207	52	9.63
1971 ASM.....	7,016	6,080	75	1,949	3.10	.52	.77	.22	13,557	52	9.32
1970 ASM.....	6,682	6,170	74	1,956	2.89	.52	.79	.25	12,287	54	8.52
1969 ASM.....	6,538	4,890	75	1,960	2.74	.52	.79	.20	11,590	56	7.86
1968 ASM.....	6,188	5,050	75	1,951	2.64	.53	.79	.21	11,333	55	7.71
1967 Census.....	5,921	4,950	75	1,980	2.49	.54	.81	.22	10,185	58	6.89
1966 ASM.....	5,653	(NA)	73	2,093	2.29	.55	.81	(NA)	10,014	56	6.60
1965 ASM.....	5,465	(NA)	71	2,122	2.21	.55	.81	(NA)	9,537	57	6.30
1964 ASM.....	5,290	4,520	72	2,047	2.19	.55	.82	.22	9,015	59	6.10
1963 Census.....	5,172	4,330	74	2,052	2.15	.54	.80	.22	9,082	57	5.96
1962 ASM.....	5,176	4,270	73	2,218	1.97	.54	.80	.22	9,123	57	5.63
1961 ASM.....	4,923	(NA)	73	2,156	1.91	.55	.81	(NA)	8,469	58	5.37
1960 ASM.....	4,866	(NA)	73	2,108	1.95	.54	.81	(NA)	8,210	59	5.36
1959 ASM.....	4,801	(NA)	74	2,028	1.98	.56	.81	(NA)	8,365	57	5.60
1958 Census.....	4,719	(NA)	73	1,976	2.05	.55	.81	(NA)	8,101	58	5.59
INDUSTRY 3443.--FABRICATED PLATEWORK (BOILER SHOPS)											
1972 Census.....	9,616	(NA)	73	1,966	4.44	.49	.76	(NA)	18,928	51	13.17
1971 ASM.....	9,180	11,480	71	1,994	4.08	.45	.71	.32	19,316	48	13.75
1970 ASM.....	8,432	10,610	73	2,033	3.76	.47	.71	.31	18,673	45	12.55
1969 ASM.....	8,075	8,930	73	2,045	3.52	.50	.78	.31	14,638	55	9.81
1968 ASM.....	7,636	8,380	74	2,038	3.35	.51	.78	.30	14,677	52	9.78
1967 Census.....	7,263	8,100	76	2,058	3.18	.48	.75	.29	14,449	50	9.27
1966 ASM.....	6,947	(NA)	74	2,368	2.63	.51	.78	(NA)	12,989	53	7.39
1965 ASM.....	6,648	(NA)	74	2,063	2.91	.52	.80	(NA)	11,969	56	7.80
1964 ASM.....	6,531	8,280	74	2,069	2.87	.52	.80	.36	11,119	59	7.27
1963 Census.....	6,203	7,980	73	2,039	2.79	.53	.82	.37	10,265	60	6.91
1962 ASM.....	6,167	7,660	70	2,025	2.75	.53	.83	.37	9,224	67	6.46
1961 ASM.....	5,956	(NA)	70	1,991	2.70	.55	.86	(NA)	8,737	68	6.24
1960 ASM.....	5,870	(NA)	71	2,007	2.65	.55	.86	(NA)	8,485	69	5.98
1959 ASM.....	5,686	(NA)	70	1,999	2.57	.53	.82	(NA)	8,614	66	6.16
1958 Census.....	5,490	(NA)	71	1,967	2.54	.53	.82	(NA)	8,338	66	5.94
INDUSTRY 3444.--SHEET METALWORK											
1972 Census.....	9,174	(NA)	75	1,953	4.18	.52	.77	(NA)	17,599	52	17.599
1971 ASM.....	8,572	7,470	74	1,996	3.91	.49	.76	.24	15,828	54	10.74
1970 ASM.....	8,418	7,340	75	1,992	3.73	.48	.76	.24	16,005	53	10.67
1969 ASM.....	8,001	6,860	77	1,993	3.54	.50	.78	.24	14,277	56	9.26
1968 ASM.....	7,541	7,090	77	1,983	3.35	.51	.78	.26	13,719	55	9.00
1967 Census.....	7,206	6,710	78	1,999	3.17	.51	.78	.25	13,058	55	8.40
1966 ASM.....	6,980	(NA)	78	2,123	2.92	.52	.79	(NA)	12,284	57	7.38
1965 ASM.....	6,463	(NA)	78	2,097	2.75	.53	.80	(NA)	11,355	57	6.91
1964 ASM.....	6,287	5,530	77	2,077	2.75	.51	.79	.25	11,024	57	6.85
1963 Census.....	6,055	5,300	78	2,021	2.73	.51	.80	.25	10,257	59	6.51
1962 ASM.....	5,943	4,690	76	2,110	2.54	.52	.82	.24	9,552	62	5.93
1961 ASM.....	5,667	(NA)	76	2,095	2.41	.52	.82	(NA)	9,282	61	5.84
1960 ASM.....	5,602	(NA)	76	2,110	2.37	.52	.81	(NA)	9,305	60	5.84
1959 ASM.....	5,426	(NA) ⁴	76	2,062	2.35	.52	.80	(NA)	9,480	57	6.01
1958 Census.....	5,236	(NA)	76	1,940	2.45	.53	.81	(NA)	8,778	60	5.99

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3446.--ARCHITECTURAL METALWORK											
1972 Census.....	8,410	(NA)	75	1,891	3.68	.47	.78	(NA)	14,919	56	10.57
1971 ASM.....	7,746	6,850	77	1,897	3.44	.44	.74	.26	14,605	53	10.02
1970 ASM.....	7,262	6,160	79	1,951	3.14	.47	.78	.26	12,350	59	8.00
1969 ASM.....	6,787	5,730	81	1,838	3.02	.47	.76	.24	12,754	53	8.60
1968 ASM.....	6,583	5,580	81	1,839	2.89	.52	.79	.23	12,135	54	8.18
1967 Census.....	6,386	5,260	80	1,921	2.76	.53	.78	.21	12,082	53	7.89
1966 ASM.....	6,174	(NA)	79	2,026	2.73	.45	.76	(NA)	10,995	56	6.84
1965 ASM.....	5,889	(NA)	77	2,120	2.50	.46	.78	(NA)	10,175	58	6.20
1964 ASM.....	5,853	4,410	80	1,991	2.61	.46	.76	.22	10,571	55	6.64
1963 Census.....	5,579	3,780	80	1,940	2.51	.44	.77	.22	9,544	58	6.15
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	5,295	(NA)	77	1,971	2.35	.45	.79	(NA)	8,631	61	5.73
INDUSTRY 3448.--PREFABRICATED METAL BUILDINGS											
1972 Census.....	8,770	(NA)	73	1,978	3.92	.54	.72	(NA)	22,918	.38	15.89
INDUSTRY 3449.--MISCELLANEOUS METALWORK											
1972 Census ¹	9,174	(NA)	67	1,954	4.00	.63	.81	(NA)	18,574	.49	14.15
1967 INDUSTRY 3449.--MISCELLANEOUS METALWORK (1972 SIC INDUSTRIES 3448 AND 3449)											
1972 Census ¹	9,016	(NA)	69	1,964	3.96	.60	.78	(NA)	20,246	.45	14.86
1971 ASM.....	8,449	9,986	68	2,029	3.72	.59	.78	.22	19,236	.44	13.90
1970 ASM.....	7,515	9,548	68	1,964	3.37	.59	.78	.24	16,035	.47	11.99
1969 ASM.....	7,192	8,347	72	1,984	3.13	.60	.79	.23	15,275	.47	10.74
1968 ASM.....	7,060	7,442	70	2,009	3.05	.59	.80	.22	14,128	.50	10.03
1967 Census.....	6,749	7,101	71	2,043	2.90	.59	.79	.21	13,719	.49	9.46
1966 ASM.....	6,654	(NA)	69	2,155	2.72	.61	.81	(NA)	13,817	.48	9.33
1965 ASM.....	6,209	(NA)	66	2,108	2.54	.58	.78	(NA)	13,194	.47	9.24
1964 ASM.....	5,934	7,163	54	2,443	2.68	.58	.79	.24	12,240	.48	9.23
1963 Census.....	5,800	7,052	68	2,029	1.99	.60	.80	.25	11,336	.52	8.21
1958 Census.....	5,368	(NA)	70	2,054	2.25	.62	.82	(NA)	10,382	.52	7.24

(NA) Not available.

¹The data are not strictly comparable with 1971 and prior years because of a revision in the 1972 Standard Industrial Classification. See footnote 4, table 1A.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3448.....	159	88	12.2	279.6	622.6	(X)	(X)	(X)	(X)	(X)
Old industry 3449.....	159	88	12.2	279.6	622.6	590	316	33.6	672.8	1,652.6
New industry 3449.....	418	220	19.5	362.2	980.4	(X)	(X)	(X)	(X)	(X)
Old industry 3449.....	418	220	19.5	362.2	980.4	590	316	33.6	672.8	1,652.6

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture	
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages							
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3441-- FABRICATED STRUCTURAL METAL														
UNITED STATES.	2 154	1 094	104.3	975.5	76.9	152.3	635.4	1 730.7	2 199.9	3 920.1	74.7	107.5	1 319.3	
NORTHEAST REGION	561	253	24.0	241.8	17.5	33.4	157.6	419.6	490.7	919.7	(D)	27.3	340.9	
NEW ENGLAND DIVISION	125	57	4.8	50.5	3.5	7.0	32.1	86.4	91.9	177.3	(D)	3.5	46.2	
MAINE	5	6	.5	5.1	.4	.9	3.4	9.1	13.5	22.2	(D)	.8	(D)	
NEW HAMPSHIRE	8	2	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
MASSACHUSETTS	64	29	2.7	28.2	2.0	3.9	18.6	48.8	47.5	95.5	(D)	1.8	23.4	
RHODE ISLAND	E1	9	.3	3.1	.3	.5	1.8	6.0	4.5	10.0	(D)	.2	1.1	
CONNECTICUT	E1	36	1.2	11.0	.6	1.2	6.5	17.5	19.1	37.1	(D)	.8	12.5	
MIDDLE ATLANTIC DIVISION	436	196	19.2	191.3	14.0	26.4	125.6	333.1	398.7	742.4	(D)	23.8	294.7	
NEW YORK	178	65	5.5	56.1	3.9	7.5	36.7	112.2	119.7	230.8	(D)	6.5	78.1	
NEW JERSEY	E1	100	4.1	31.7	2.2	4.1	20.3	56.6	59.5	116.9	(D)	3.3	54.2	
PENNSYLVANIA	158	90	10.7	103.4	8.0	14.8	68.6	164.3	219.5	394.7	(D)	13.9	162.4	
NORTH CENTRAL REGION	612	308	28.9	276.8	21.0	41.6	174.6	494.3	606.0	1 103.0	20.5	32.7	440.5	
EAST NORTH CENTRAL DIVISION	461	228	19.9	193.9	14.6	29.0	124.1	350.1	413.4	771.8	13.1	25.1	339.6	
OHIO	135	71	5.4	50.4	4.0	7.9	32.7	86.9	111.9	199.9	(D)	5.6	71.4	
INDIANA	53	34	4.0	37.4	3.0	5.6	24.5	51.5	97.3	163.0	(D)	4.9	53.1	
ILLINOIS	132	57	5.2	50.6	3.9	8.0	34.0	112.9	102.5	211.0	4.8	5.5	81.6	
MICHIGAN	96	42	3.1	33.6	2.3	4.6	20.9	57.6	61.6	119.1	2.0	6.4	101.1	
WISCONSIN	45	24	2.2	22.0	1.4	2.8	12.1	41.3	40.1	78.8	1.5	2.5	32.3	
WEST NORTH CENTRAL DIVISION	151	80	9.0	82.8	6.3	12.6	50.5	144.2	192.6	331.2	7.4	7.6	100.9	
MINNESOTA	33	18	2.1	20.5	1.4	2.6	11.8	33.7	47.6	79.4	1.6	1.3	19.9	
IOWA	29	17	1.9	16.4	1.3	2.8	10.6	24.1	38.5	65.1	1.6	1.8	15.9	
MISSOURI	E2	52	2.3	22.3	1.6	3.3	14.1	41.6	48.9	85.8	2.9	2.1	37.2	
NORTH DAKOTA	2	1	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	(D)	
SOUTH DAKOTA	3	2	.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	(D)	
NEBRASKA	9	7	1.1	9.7	.7	1.4	5.0	18.6	24.8	43.3	(D)	.7	6.2	
KANSAS	23	15	1.3	10.4	1.0	2.0	6.9	22.3	23.5	44.7	.6	1.3	17.9	
SOUTH REGION	626	363	36.5	301.9	27.5	56.8	198.8	543.5	807.2	1 332.4	28.8	32.6	350.7	
SOUTH ATLANTIC DIVISION	E1	276	15.6	126.0	10.8	22.6	78.7	219.2	354.1	566.2	14.4	11.4	124.9	
MARYLAND	35	22	1.8	16.7	1.3	2.3	10.3	26.1	33.1	58.5	1.7	1.3	14.7	
VIRGINIA	E1	40	2.5	27.7	2.3	5.0	17.7	53.7	76.5	128.7	3.2	2.8	31.1	
WEST VIRGINIA	E2	13	.7	6.2	.5	1.0	3.9	12.3	14.6	26.9	2.8	.7	8.7	
NORTH CAROLINA	42	25	2.9	24.9	2.2	4.6	15.0	51.6	80.5	127.4	2.8	1.8	21.8	
SOUTH CAROLINA	E1	33	2.0	19.5	1.6	3.8	12.4	22.4	58.1	80.9	1.0	1.3	15.1	
GEORGIA	E1	43	1.9	11.2	1.1	2.3	7.7	20.9	30.5	51.5	(D)	1.2	11.1	
FLORIDA	65	33	2.3	18.8	1.6	3.3	11.1	30.7	59.1	89.3	(D)	2.1	19.4	
EAST SOUTH CENTRAL DIVISION	132	75	6.1	48.5	4.7	9.3	33.0	88.9	139.0	227.7	(D)	6.1	72.7	
KENTUCKY	17	4	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.2	
TENNESSEE	46	26	1.9	16.1	1.5	2.9	10.3	26.4	40.1	68.0	(D)	2.2	28.8	
ALABAMA	48	30	2.8	21.3	2.1	3.9	14.4	39.4	61.5	100.0	(D)	3.0	30.4	
MISSISSIPPI	21	15	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.2	
WEST SOUTH CENTRAL DIVISION	218	132	15.7	127.5	11.9	24.9	87.1	235.3	314.1	538.5	(D)	15.0	153.1	
ARKANSAS	19	10	1.3	9.4	.9	1.8	5.3	28.0	33.9	62.0	.9	1.1	6.7	
LOUISIANA	35	22	2.9	25.7	2.5	5.1	20.9	59.5	54.9	99.1	(D)	3.0	33.5	
OKLAHOMA	32	19	3.4	25.8	2.6	5.0	16.7	45.1	48.8	91.1	(D)	3.4	31.8	
TEXAS	132	81	8.1	66.6	6.1	13.0	44.2	102.8	176.5	286.3	5.2	7.6	81.1	
WEST REGION	355	170	14.9	155.1	10.9	20.5	104.3	273.4	296.1	565.0	(D)	14.9	187.2	
MOUNTAIN DIVISION	94	52	4.2	37.8	3.2	6.2	26.5	79.0	86.0	161.0	(D)	3.1	36.0	
COLORADO	29	16	1.2	10.5	.9	1.7	6.9	18.5	23.5	41.3	1.3	.8	9.8	
NEW MEXICO	6	3	.4	2.8	.2	.5	1.6	4.9	5.3	9.8	.3	(NA)	(NA)	
ARIZONA	19	9	1.2	11.1	.9	1.8	8.6	24.2	23.1	45.5	.8	1.1	12.1	
UTAH	23	14	1.1	9.7	.9	1.8	7.0	24.7	25.3	49.6	1.5	.6	6.1	
PACIFIC DIVISION	261	118	10.7	117.3	7.7	14.4	77.8	194.4	210.1	404.0	5.8	11.8	151.1	
WASHINGTON	E1	46	2.2	20.7	1.3	2.4	13.5	33.8	34.4	68.5	(D)	2.1	30.5	
OREGON	E4	27	.7	6.8	.5	.9	4.7	12.3	12.6	24.3	.6	.6	(D)	
CALIFORNIA	183	85	8.2	89.1	5.9	11.0	59.4	147.3	162.3	309.3	(D)	8.9	111.0	
3442-- METAL DOORS, SASH, AND TRIM														
UNITED STATES.	E1	1 558	646	70.7	520.8	53.0	104.2	330.3	1 003.7	1 085.0	2 077.6	52.1	63.9	651.1
NORTHEAST REGION	E2	378	155	14.5	112.1	10.5	20.7	71.0	198.9	179.2	376.7	(D)	16.1	163.6
NEW ENGLAND DIVISION	E1	88	40	2.8	20.7	1.9	3.8	12.1	39.0	38.1	76.8	(D)	2.8	27.5
NEW HAMPSHIRE	E2	10	.5	1.7	.2	.4	1.0	2.5	3.4	5.8	(D)	.8	(D)	
MASSACHUSETTS	E1	46	1.7	9.2	1.0	1.9	5.9	18.2	18.5	36.4	(D)	1.2	10.9	
RHODE ISLAND	10	5	.2	1.8	.2	.4	1.1	4.1	3.5	7.7	(D)	.2	2.8	
CONNECTICUT	21	12	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.1	
MIDDLE ATLANTIC DIVISION	E2	290	115	11.7	91.4	8.6	16.8	58.8	159.9	141.1	299.8	(D)	13.3	136.1
NEW YORK	E3	140	58	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	63.1	
NEW JERSEY	E1	64	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	24.0	
PENNSYLVANIA	86	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.0	49.0	
NORTH CENTRAL REGION	452	190	21.9	177.5	16.0	32.0	111.8	338.6	377.0	715.6	16.9	20.8	222.3	
EAST NORTH CENTRAL DIVISION	337	135	17.7	148.4	12.8	25.9	94.2	283.6	319.2	603.3	14.2	16.6	184.5	
OHIO	83	35	6.5	57.2	4.6	9.7	35.0	117.2	135.7	252.9	(D)	5.1	56.4	
INDIANA	36	17	2.6	21.4	1.9	3.8	14.2	30.6	43.4	77.0	(D)	2.1	19.6	
ILLINOIS	85	37	3.4	26.5	2.4	4.6	17.3	49.3	49.5	98.4	1.8	3.6	33.3	
MICHIGAN	E1	104	37	4.6	38.0	3.3	6.8	24.6	77.3	82.6	157.9	4.2	4.9	65.9
WISCONSIN	29	9	.7	5.3	.5	1.0	3.3	9.3	8.1	17.2	.2	.9	9.2	
WEST NORTH CENTRAL DIVISION	E1	115	55	4.2	29.0	3.2	6.1	17.6	55.1	57.8	112.4	2.7	4.2	37.8
MINNESOTA	E1	23	1.1	7.5	.5	1.0	4.0	12.5	9.8	22.2	.2	.9	10.9	
IOWA	16	9	.8	4.8	.6	1.3	3.4	9.7	10.1	19.8	.6	.4	3.8	
MISSOURI	E2	36	1.6	9.2	1.0	1.9	5.6	17.3	17.4	34.4	.8	2.1	16.0	
NEBRASKA	E2	11	.4	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	.8	(D)
KANSAS	E1	26	1.4	5.5	.8	1.5	3.6	11.2	15.5	26.7	1.0	.5	4.7	

See footnotes at end of table

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3442-- METAL DOORS, SASH, AND TRIM--CON.													
SOUTH REGION	E1 437	195	24.7	157.2	19.4	37.8	102.3	323.9	365.8	683.1	19.2	18.7	177.6
SOUTH ATLANTIC DIVISION	E1 214	99	11.9	79.3	8.9	17.6	48.6	152.5	183.5	333.2	11.9	11.1	108.4
MARYLAND	20	7	.6	4.6	.4	.8	2.0	9.0	9.2	18.3	(D)	.8	12.3
VIRGINIA	21	12	1.4	9.4	1.0	1.9	5.6	19.1	19.7	38.1	.9	.8	7.2
NORTH CAROLINA	E1 22	9	.7	4.7	.5	.9	2.7	10.5	13.4	23.7	.4	.6	5.1
SOUTH CAROLINA	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.1
GEORGIA	35	21	3.2	21.4	2.5	4.8	13.8	37.5	53.4	89.8	4.2	3.2	29.0
FLORIDA	E2 97	48	5.7	37.7	4.4	8.8	23.3	72.6	81.7	153.3	(D)	5.2	51.5
EAST SOUTH CENTRAL DIVISION	86	38	4.6	27.0	3.8	7.5	19.3	67.5	67.6	133.0	(D)	2.9	24.3
KENTUCKY	22	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.2
TENNESSEE	32	14	1.3	8.3	1.1	2.1	6.0	14.4	20.1	33.9	(D)	.8	7.2
ALABAMA	E1 20	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	5.6
MISSISSIPPI	E1 12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.3
WEST SOUTH CENTRAL DIVISION	E1 137	58	8.2	50.9	6.6	12.7	34.5	103.9	114.7	216.9	(D)	4.8	45.0
ARKANSAS	15	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.4
LOUISIANA	E2 9	5	.4	3.0	.3	.6	1.8	6.0	6.0	11.7	(D)	.4	4.4
OKLAHOMA	24	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	11.9
TEXAS	E1 89	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	23.4
WEST REGION	E1 291	106	9.5	73.9	7.1	13.8	45.3	142.3	163.0	302.2	(D)	8.3	87.6
MOUNTAIN DIVISION	E1 35	14	.8	5.1	.6	1.2	2.8	8.2	11.2	19.4	(D)	.6	7.8
COLORADO	E2 11	5	.2	1.7	.2	.3	.9	2.7	4.8	7.5	.1	.3	4.7
NEW MEXICO	5	3	.2	1.1	.2	.4	.7	1.5	1.1	2.6	(2)	(NA)	(NA)
UTAH	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION	E1 256	92	8.8	68.9	6.5	12.6	42.5	134.1	151.8	282.8	5.3	7.7	79.8
WASHINGTON	35	9	.8	7.4	.6	1.1	4.6	13.7	11.7	24.9	(D)	1.1	12.4
OREGON	21	6	.7	4.5	.6	1.0	3.0	8.4	12.7	21.3	.4	BB	(D)
CALIFORNIA	E1 195	76	7.2	56.3	5.3	10.3	34.5	110.7	126.3	234.1	(D)	6.3	63.2
3443-- FABRICATED PLATEWORK, BOILER SHOPS													
UNITED STATES	1 486	795	92.9	893.3	67.9	133.5	593.1	1 758.4	1 632.8	3 338.5	77.3	96.4	1 393.4
NORTHEAST REGION	384	183	22.7	223.9	15.2	28.9	133.3	422.8	409.2	821.2	(D)	23.9	336.7
NEW ENGLAND DIVISION	84	30	3.2	35.6	1.8	3.7	17.5	53.3	98.2	151.2	(D)	3.2	38.8
NEW HAMPSHIRE	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS	46	19	1.0	10.0	.7	1.6	6.6	18.2	17.6	35.2	(D)	1.8	23.0
RHODE ISLAND	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.0
CONNECTICUT	23	6	1.4	17.0	.5	.9	4.3	21.2	67.8	90.8	(D)	.9	10.8
MIDDLE ATLANTIC DIVISION	300	153	19.5	188.3	13.4	25.2	115.8	369.5	311.0	670.0	(D)	20.7	299.8
NEW YORK	93	39	5.5	56.2	3.7	7.4	33.6	114.0	78.8	182.7	(D)	4.9	72.6
NEW JERSEY	85	33	2.5	26.1	1.8	3.5	16.8	49.7	41.9	90.4	(D)	2.2	32.2
PENNSYLVANIA	122	81	11.5	106.0	7.9	14.3	65.5	205.8	190.4	396.9	(D)	13.7	195.0
NORTH CENTRAL REGION	466	253	29.2	288.3	22.2	43.8	200.9	551.7	472.2	1 000.0	24.6	30.8	475.9
EAST NORTH CENTRAL DIVISION	358	192	22.2	222.5	16.8	32.9	154.4	415.8	356.2	751.6	16.3	25.0	402.9
OHIO	101	60	8.9	87.0	6.8	12.9	61.9	166.7	162.6	318.4	(D)	10.0	206.7
INDIANA	44	20	3.1	30.0	2.1	4.2	19.4	65.6	51.7	110.1	(D)	3.0	32.4
ILLINOIS	77	47	3.7	38.0	2.9	5.8	26.1	78.0	60.0	137.7	1.6	4.2	73.8
MICHIGAN	78	31	2.4	25.9	1.9	3.6	18.7	38.7	31.5	69.5	1.9	2.7	37.5
WISCONSIN	58	34	4.2	41.6	3.2	6.4	28.3	66.8	50.3	115.9	4.8	5.1	52.5
WEST NORTH CENTRAL DIVISION	108	61	7.0	65.7	5.4	10.9	46.5	135.9	116.1	248.3	8.3	5.8	73.0
MINNESOTA	E1 23	12	1.1	10.9	.8	1.5	7.6	21.1	18.3	38.2	.9	1.1	16.4
IOWA	E1 17	10	1.2	10.0	1.0	2.0	7.2	26.0	23.3	48.6	1.2	.6	4.6
MISSOURI	38	21	3.4	34.5	2.6	5.3	24.9	69.3	51.1	118.2	5.0	2.9	37.0
KANSAS	17	13	1.1	8.4	.8	1.6	5.5	14.7	15.1	30.1	1.1	.7	7.9
SOUTH REGION	392	253	33.2	301.6	24.8	49.9	205.0	639.0	591.3	1 218.6	31.0	32.5	432.3
SOUTH ATLANTIC DIVISION	126	74	7.8	67.5	6.1	11.9	47.1	194.2	166.1	353.6	6.0	6.9	89.7
DELAWARE	6	3	.2	1.8	.2	.3	1.1	5.6	6.2	11.9	(2)	.5	5.4
MARYLAND	E2 17	7	.4	3.7	.3	.6	2.3	7.0	8.3	15.6	.4	.5	4.2
VIRGINIA	18	16	1.5	13.4	1.2	2.4	9.3	43.9	53.4	89.7	.9	1.5	17.9
WEST VIRGINIA	6	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	21	10	1.6	12.4	1.4	2.7	10.1	29.7	31.0	60.6	.9	1.3	29.2
SOUTH CAROLINA	E1 7	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.0
GEORGIA	17	13	1.7	13.0	1.4	2.6	10.5	39.1	18.3	56.2	.6	1.6	19.3
FLORIDA	33	15	1.9	17.9	1.3	2.4	9.7	58.0	39.7	99.9	2.2	1.1	8.9
EAST SOUTH CENTRAL DIVISION	76	49	10.7	101.6	8.0	15.7	69.8	211.3	177.0	389.4	(D)	10.1	145.5
KENTUCKY	20	8	.6	6.4	.4	1.0	3.8	10.8	10.6	21.4	(D)	.7	8.0
TENNESSEE	25	18	6.9	67.2	4.9	9.6	44.6	122.8	108.5	231.4	(D)	6.1	52.5
ALABAMA	23	16	1.6	14.7	1.2	2.2	10.1	30.1	33.5	66.3	(D)	1.7	54.3
MISSISSIPPI	8	7	1.7	13.2	1.5	2.9	11.2	47.5	24.3	70.2	(D)	1.5	30.7
WEST SOUTH CENTRAL DIVISION	190	130	14.7	132.5	10.8	22.3	88.1	233.6	248.1	475.6	(D)	15.5	197.2
ARKANSAS	E1 14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.2
LOUISIANA	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	28.3
OKLAHOMA	44	33	4.1	36.0	2.8	5.3	20.7	72.5	77.1	149.9	(D)	4.1	68.5
TEXAS	121	83	8.0	72.3	5.9	12.6	50.8	127.7	131.5	253.8	8.8	8.8	97.2
WEST REGION	244	106	7.7	79.5	5.7	10.9	53.9	144.9	160.1	298.6	(D)	9.2	146.4
MOUNTAIN DIVISION	42	16	1.7	13.7	1.3	2.2	9.3	31.1	34.8	63.4	(D)	1.7	32.2
COLORADO	12	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	6.0
NEW MEXICO	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA	8	1	.3	3.0	.3	.4	2.3	3.4	7.0	11.1	(D)	(NA)	(NA)
UTAH	12	7	.6	4.3	.4	.7	2.8	17.5	12.7	27.7	1.5	.8	22.8
PACIFIC DIVISION	202	90	6.1	65.8	4.4	8.7	44.6	113.7	125.3	235.2	3.6	7.5	114.2
WASHINGTON	27	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	11.2
OREGON	22	11	.5	5.4	.4	.7	3.8	11.2	10.0	20.7	.2	CC	(D)
CALIFORNIA	152	68	4.9	53.6	3.6	7.1	36.0	92.4	105.9	194.6	(D)	5.7	93.8

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees¹	Value added by manufacture
	Total	With 20 employees or more	Number¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3444-- SHEET METALWORK													
UNITED STATES. E1	3 116	932	74.0	678.9	55.6	108.6	454.3	1 302.3	1 397.0	2 680.2	59.2	68.1	889.3
NORTHEAST REGION E1	842	240	18.5	176.1	14.1	27.6	121.0	300.1	282.7	579.3	(D)	19.8	261.2
NEW ENGLAND DIVISION E2	248	60	4.0	36.2	3.0	5.9	24.5	63.8	42.6	105.3	(D)	5.0	59.8
MAINE E1	9	1	.2	1.3	.1	.2	.7	2.8	1.6	4.3	(D)	.2	1.3
MASSACHUSETTS. E2	147	37	2.6	23.4	2.0	3.9	16.1	41.6	25.7	66.3	(D)	2.8	34.9
RHODE ISLAND E1	18	4	.2	2.5	.2	.4	1.8	4.2	3.2	7.3	(D)	.2	2.7
CONNECTICUT. E2	56	15	.9	7.6	.6	1.2	4.9	12.4	10.0	22.5	(D)	1.5	17.6
MIDDLE ATLANTIC DIVISION . . . E1	594	180	14.5	139.9	11.1	21.7	96.5	236.4	240.1	474.1	(D)	14.8	201.4
NEW YORK E1	235	73	5.8	56.8	4.5	8.9	40.5	89.7	68.8	158.2	(D)	6.2	75.9
NEW JERSEY E1	179	52	3.9	40.5	3.0	6.1	28.4	71.8	64.2	133.6	(D)	4.1	51.1
PENNSYLVANIA	180	55	4.8	42.5	3.6	6.7	27.6	74.8	107.1	182.3	(D)	4.5	74.4
NORTH CENTRAL REGION	813	289	26.2	250.9	19.5	38.1	165.2	509.0	552.1	1 049.1	23.8	26.3	352.6
EAST NORTH CENTRAL DIVISION. . .	624	224	20.0	195.3	14.8	28.9	123.4	391.2	425.8	808.4	15.8	20.0	276.0
OHIO	167	71	6.8	64.9	4.9	9.8	43.3	129.2	158.2	284.9	(D)	7.5	95.9
INDIANA	79	37	2.3	21.5	1.7	3.4	14.7	43.1	52.8	94.4	(D)	2.1	28.2
ILLINOIS	166	56	4.3	40.7	3.3	6.3	26.7	77.4	71.8	148.0	2.8	3.8	46.1
MICHIGAN	147	42	4.1	43.4	3.1	5.9	28.7	85.7	89.4	172.5	3.0	3.1	50.8
WISCONSIN.	65	18	2.6	24.7	1.8	3.5	15.0	55.8	53.7	108.6	2.8	3.6	55.1
WEST NORTH CENTRAL DIVISION. . .	189	65	6.2	55.6	4.7	9.2	36.7	117.8	126.2	240.7	8.0	6.3	76.6
MINNESOTA.	56	15	1.2	11.6	.9	1.8	7.8	23.0	21.4	43.9	1.3	.9	11.5
IOWA	27	8	1.6	13.0	1.2	2.8	9.6	27.9	21.0	48.1	.8	1.3	12.5
MISSOURI	54	21	1.6	15.8	1.2	2.2	10.3	30.2	37.5	67.6	.7	3.0	38.5
SOUTH DAKOTA	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA	11	7	.9	7.2	.6	1.2	3.9	16.7	20.1	36.2	.4	.6	7.5
KANSAS	29	12	.6	5.6	.5	1.0	3.9	13.2	19.2	31.5	4.8	.4	4.6
SOUTH REGION E1	859	235	18.7	153.4	14.0	28.0	101.9	303.7	372.3	673.8	13.4	12.7	146.1
SOUTH ATLANTIC DIVISION.	395	137	10.4	84.6	7.7	15.5	57.4	162.9	219.7	382.7	8.2	6.6	78.2
DELAWARE	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND E1	40	17	1.5	13.7	1.0	1.9	8.1	26.0	28.5	54.4	.9	1.1	16.0
DISTRICT OF COLUMBIA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
VIRGINIA E1	33	9	.9	6.9	.8	1.7	5.6	12.8	7.0	20.1	1.2	.7	7.5
WEST VIRGINIA.	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA	61	22	1.8	12.9	1.3	2.7	8.4	23.5	49.2	74.7	1.0	1.1	13.2
SOUTH CAROLINA	25	6	.2	1.8	.2	.3	1.0	4.7	9.5	14.0	.4	.2	2.1
GEORGIA. E1	73	22	1.2	9.5	.9	1.8	5.4	20.7	25.0	45.8	.7	.9	8.4
FLORIDA. E1	145	50	3.4	25.8	2.6	5.2	17.7	51.6	48.6	99.1	2.7	1.8	20.8
EAST SOUTH CENTRAL DIVISION. . .	146	33	3.0	26.2	2.2	4.4	16.2	53.5	60.1	112.0	(D)	2.1	28.0
KENTUCKY	23	8	.4	5.1	.3	.5	3.2	9.6	13.4	21.8	(D)	CC	(D)
TENNESSEE.	52	10	1.2	10.3	.9	1.8	6.4	18.1	21.7	39.4	(D)	.7	9.1
ALABAMA.	48	10	1.1	8.6	.8	1.6	5.3	21.9	20.1	41.4	(D)	.5	6.6
MISSISSIPPI. E1	23	5	.3	2.3	.2	.4	1.3	3.9	4.8	9.4	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E1	318	65	5.3	42.5	4.1	8.1	28.3	87.3	92.6	179.1	(D)	4.0	39.9
ARKANSAS. E1	23	5	.4	2.8	.3	.8	2.2	5.5	4.0	9.5	.2	.4	3.3
LOUISIANA. E1	45	7	.6	5.3	.4	.9	3.1	10.8	15.6	27.1	(D)	.4	4.9
OKLAHOMA E1	33	6	.4	3.0	.3	.5	2.0	6.1	6.4	12.5	(D)	.3	3.7
TEXAS. E1	217	47	3.9	31.4	3.0	5.9	21.0	65.0	66.6	130.0	2.1	2.8	28.0
WEST REGION. E1	602	168	10.7	98.5	8.0	14.9	66.2	189.4	189.9	378.1	(D)	9.3	129.4
MOUNTAIN DIVISION. E1	111	39	2.2	17.5	1.7	3.1	12.3	33.1	33.6	65.8	(D)	1.0	11.5
MONTANA.	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDAHO.	9	6	.2	2.1	.2	.3	1.6	3.8	3.7	7.3	(Z)	(NA)	(NA)
COLORADO E1	34	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.9
ARIZONA. E1	34	14	.7	5.1	.5	1.0	3.7	10.9	10.9	21.6	.4	.3	3.0
UTAH.	18	5	.2	2.3	.2	.3	1.8	4.1	3.3	7.3	.2	(NA)	(NA)
PACIFIC DIVISION E1	491	129	8.4	81.0	6.3	11.9	53.9	156.4	156.4	312.3	6.3	8.3	117.9
WASHINGTON E3	48	11	.8	8.2	.6	1.2	5.6	15.3	16.4	31.8	(D)	.7	9.8
OREGON	36	9	.8	8.8	.7	1.3	6.9	14.6	16.9	32.0	.4	.8	10.4
CALIFORNIA E1	399	109	6.7	63.7	5.0	9.4	41.2	125.8	122.5	247.3	(D)	6.7	95.9
3446-- ARCHITECTURAL METALWORK													
UNITED STATES. E2	1 459	250	20.9	175.4	15.6	29.5	108.7	311.8	269.6	573.7	17.0	19.3	232.6
NORTHEAST REGION E2	455	71	6.4	56.3	4.8	9.2	36.3	97.9	78.2	175.9	(D)	6.0	66.7
NEW ENGLAND DIVISION E1	85	9	1.2	10.4	.9	1.6	6.6	19.5	18.1	37.7	(D)	.4	5.9
MASSACHUSETTS. E2	41	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.1
CONNECTICUT. E1	25	4	.8	7.1	.6	1.1	4.5	13.3	12.1	25.7	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . E2	370	62	5.3	46.0	3.9	7.5	29.7	78.4	60.1	138.1	(D)	5.6	60.9
NEW YORK E2	154	27	2.1	19.2	1.5	2.8	11.8	32.1	19.8	52.2	(D)	2.0	20.9
NEW JERSEY E2	76	5	.7	5.5	.6	1.1	3.5	10.7	8.1	18.6	(D)	.6	8.9
PENNSYLVANIA E2	140	30	2.5	21.3	1.8	3.6	14.3	35.7	32.2	67.3	(D)	3.0	31.0
NORTH CENTRAL REGION E1	330	73	6.1	54.9	4.4	8.4	32.6	95.6	96.3	184.6	7.8	4.9	66.7
EAST NORTH CENTRAL DIVISION. . E1	233	57	5.0	44.9	3.6	6.9	26.9	75.2	81.1	149.1	7.1	4.0	55.7
OHIO E1	67	21	2.1	17.6	1.6	3.2	11.9	26.4	40.6	60.6	(D)	1.3	16.6
INDIANA. E1	26	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.5
ILLINOIS E1	71	14	1.2	12.1	.8	1.5	6.2	20.4	19.3	39.0	3.6	1.0	14.4
MICHIGAN	47	13	1.0	10.6	.7	1.4	6.2	20.1	13.1	33.2	.6	1.1	15.9
WISCONSIN. E2	22	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	6.2
WEST NORTH CENTRAL DIVISION. . E1	97	16	1.1	10.0	.8	1.5	5.6	20.4	15.2	35.5	.6	.9	11.0
MINNESOTA. E1	25	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.8
MISSOURI E6	25	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.6
KANSAS	16	3	.3	2.3	.2	.4	1.3	5.4	4.3	9.6	.2	AA	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3446-- ARCHITECTURAL METALWORK--CON.													
SOUTH REGION	E2 439	72	5.8	40.8	4.5	8.5	26.2	72.5	61.6	133.3	4.1	5.2	56.4
SOUTH ATLANTIC DIVISION.	E1 215	41	3.0	22.7	2.3	4.4	14.3	37.2	28.5	65.8	1.7	2.9	28.8
MARYLAND	E1 30	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.4
VIRGINIA	E2 25	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA	E1 17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	E1 20	4	.5	3.4	.4	.8	2.3	4.1	3.8	7.8	.3	.2	2.1
GEORGIA	E2 32	11	.5	3.3	.5	.8	2.3	6.9	5.5	12.3	.2	.3	3.4
FLORIDA	E2 73	8	.8	6.0	.6	1.2	3.7	9.3	6.6	15.9	.7	1.0	8.7
EAST SOUTH CENTRAL DIVISION.	E2 97	15	1.3	9.4	1.1	2.0	6.2	17.8	17.1	34.5	(D)	1.4	16.7
KENTUCKY	E3 21	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE	E1 39	7	.6	4.5	.5	.9	2.8	8.2	9.0	17.0	(D)	.6	6.9
ALABAMA	E4 30	6	.4	2.9	.3	.7	2.0	6.5	5.0	11.4	(D)	.5	6.2
WEST SOUTH CENTRAL DIVISION.	E2 127	16	1.5	8.7	1.2	2.2	5.7	17.5	16.0	33.0	(D)	.9	10.9
TEXAS	E2 85	9	1.0	6.2	.8	1.6	4.0	12.2	11.5	23.4	.6	.6	7.5
WEST REGION	E2 235	34	2.5	23.4	1.8	3.4	13.7	45.7	33.6	80.0	(D)	3.2	42.9
MOUNTAIN DIVISION.	E2 57	7	.7	5.1	.5	.9	3.2	11.3	7.8	19.6	(D)	1.0	11.4
ARIZONA	E1 16	3	.2	.9	.1	.2	.6	2.0	.8	2.9	.1	.7	6.7
UTAH	E1 11	3	.4	3.1	.3	.5	1.9	7.1	5.3	12.8	.1	.2	2.8
PACIFIC DIVISION	E2 178	27	1.9	18.4	1.3	2.6	10.5	34.4	25.7	60.4	1.2	2.1	31.4
CALIFORNIA	E2 144	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	29.3
3448-- PREFABRICATED METAL BUILDINGS													
UNITED STATES	159	88	12.2	107.0	8.9	17.6	69.0	279.6	338.6	622.6	11.3	(NA)	(NA)
NORTHEAST REGION	17	9	.9	8.6	.5	.9	3.4	18.6	20.3	39.9	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	14	6	.8	7.3	.4	.7	2.7	15.5	17.0	33.5	(D)	(NA)	(NA)
NEW JERSEY	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	43	26	5.3	47.7	4.0	7.5	31.5	124.2	173.2	291.8	4.3	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	36	21	4.6	41.3	3.5	6.6	28.1	113.8	157.3	269.7	3.7	(NA)	(NA)
OHIO	8	5	1.1	11.6	.8	1.5	7.9	24.3	40.8	64.9	(D)	(NA)	(NA)
INDIANA	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	12	8	1.9	16.5	1.5	2.9	11.1	54.9	70.5	125.4	2.9	(NA)	(NA)
WISCONSIN	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	7	5	.7	5.4	.5	.9	3.5	10.4	15.9	22.1	.6	(NA)	(NA)
MISSOURI	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	70	41	4.8	40.2	3.7	7.7	26.3	99.6	120.0	239.7	6.1	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	26	17	1.5	11.7	1.4	2.9	9.7	48.7	43.0	102.6	2.3	(NA)	(NA)
GEORGIA	8	8	.9	7.7	.7	1.5	4.5	23.6	27.4	50.8	.7	(NA)	(NA)
FLORIDA	8	3	.3	2.3	.2	.5	1.5	3.3	3.4	5.8	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	18	11	1.5	11.4	1.1	2.3	7.4	25.9	32.5	57.8	(D)	(NA)	(NA)
KENTUCKY	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	8	2	.4	2.6	.2	.5	1.3	4.9	6.2	10.8	(D)	(NA)	(NA)
ALABAMA	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	26	13	1.8	17.1	1.2	2.5	9.3	35.1	44.5	79.3	(D)	(NA)	(NA)
LOUISIANA	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	17	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	29	12	1.2	11.4	.9	1.6	7.6	27.2	25.0	51.2	(D)	(NA)	(NA)
PACIFIC DIVISION	22	11	1.2	11.0	.8	1.5	7.3	26.7	24.3	50.0	.3	(NA)	(NA)
CALIFORNIA	20	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3449-- MISCELLANEOUS METALWORK													
UNITED STATES	E1 418	220	19.5	178.8	13.1	25.6	102.2	362.2	619.0	980.4	26.2	(NA)	(NA)
NORTHEAST REGION	E2 77	41	3.1	27.7	2.1	4.2	15.7	58.5	103.5	161.9	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	E4 10	8	.6	5.6	.4	.9	3.2	11.2	21.2	32.8	(D)	(NA)	(NA)
NEW HAMPSHIRE	E7 2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	E1 67	33	2.5	22.1	1.7	3.3	12.5	47.3	82.3	129.0	(D)	(NA)	(NA)
NEW YORK	E3 22	10	.6	5.3	.4	.8	2.9	11.7	21.9	33.3	(D)	(NA)	(NA)
NEW JERSEY	E1 18	8	.6	4.8	.4	.8	3.0	12.7	20.9	33.3	(D)	(NA)	(NA)
PENNSYLVANIA	E1 27	15	1.3	12.1	.8	1.6	6.6	22.9	39.5	62.4	(D)	(NA)	(NA)
NORTH CENTRAL REGION	103	48	5.8	55.9	4.0	7.8	34.1	115.4	176.6	291.8	7.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	74	35	3.7	34.8	2.5	4.9	21.2	74.0	129.3	201.9	4.9	(NA)	(NA)
OHIO	20	11	1.5	14.9	1.0	2.0	9.1	25.9	46.0	71.0	(D)	(NA)	(NA)
INDIANA	E1 8	5	.4	3.1	.2	.4	1.5	5.0	15.6	20.2	(D)	(NA)	(NA)
ILLINOIS	23	14	1.5	13.9	1.1	2.0	9.1	37.7	55.4	93.1	1.5	(NA)	(NA)
MICHIGAN	E2 16	4	.3	2.5	.2	.4	1.4	4.3	10.6	15.3	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	29	13	2.2	20.9	1.5	3.0	12.9	41.4	47.3	89.9	2.9	(NA)	(NA)
MINNESOTA	7	3	.5	5.0	.4	.8	3.5	12.5	10.1	23.4	.3	(NA)	(NA)
IOWA	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA	E1 5	4	.4	3.5	.3	.5	2.2	9.1	13.2	22.1	1.3	(NA)	(NA)
KANSAS	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3449-- MISCELLANEOUS METALWORK--CON.													
SOUTH REGION E1	167	100	7.8	66.8	5.2	10.3	38.5	130.6	261.5	391.9	9.0	(NA)	(NA)
SOUTH ATLANTIC DIVISION. E1	80	51	4.2	38.6	2.7	5.4	21.2	80.0	148.7	227.1	2.9	(NA)	(NA)
MARYLAND E5	6	5	.4	3.9	.1	.3	1.4	8.5	12.2	20.2	.1	(NA)	(NA)
VIRGINIA	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA	7	7	.7	6.7	.6	1.3	4.7	11.8	22.0	33.3	.3	(NA)	(NA)
GEORGIA E1	16	11	.4	2.9	.3	.6	1.6	5.9	16.9	23.1	.4	(NA)	(NA)
FLORIDA	32	16	1.4	14.8	.8	1.7	7.2	23.4	57.9	82.3	1.2	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	26	19	1.5	11.4	1.1	2.1	7.2	24.0	41.9	64.9	.6	(NA)	(NA)
TENNESSEE E2	12	9	.4	3.1	.3	.6	1.8	5.7	13.2	19.1	(D)	(NA)	(NA)
ALABAMA	10	7	1.0	7.6	.7	1.4	5.1	16.2	26.8	41.9	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. E1	62	31	2.5	19.3	1.8	3.3	12.0	42.3	75.1	118.9	(D)	(NA)	(NA)
ARKANSAS	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA E4	9	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	40	22	1.9	15.9	1.3	2.6	9.9	35.1	64.7	102.3	3.9	(NA)	(NA)
WEST REGION. E2	71	31	2.7	28.6	1.6	3.2	14.0	57.8	77.4	134.7	(D)	(NA)	(NA)
MOUNTAIN DIVISION. E1	19	9	.5	3.9	.3	.6	1.7	8.6	15.3	23.6	(D)	(NA)	(NA)
ARIZONA E1	7	3	.2	1.3	.1	.1	.4	3.0	4.0	6.9	(D)	(NA)	(NA)
PACIFIC DIVISION E2	52	22	2.3	24.7	1.3	2.6	12.3	49.2	62.1	111.1	3.5	(NA)	(NA)
OREGON E2	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA E2	42	18	1.9	19.9	1.2	2.3	10.9	38.8	46.4	84.3	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown.

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Fabricated structural metal (SIC 3441)	Metal doors, sash, and trim (SIC 3442)	Fabricated platework (boiler shops) (SIC 3443)	Sheet metalwork (SIC 3444)	Architectural metalwork (SIC 3446)	Prefabricated metal buildings (SIC 3448)	Miscellaneous metalwork (SIC 3449)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	89	90	92	90	88	89	91
COVERAGE RATIO ² DO	93	91	87	84	81	90	76
ESTABLISHMENTS, TOTAL NUMBER	2 154	1 558	1 486	311.6	1 459	159	418
WITH 1 TO 19 EMPLOYEES DO	1 050	912	691	2 184	1 209	71	198
WITH 20 TO 99 EMPLOYEES DO	833	458	597	801	221	45	169
WITH 100 EMPLOYEES OR MORE DO	261	188	198	131	29	43	51
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	104.3	70.7	92.9	74.0	20.9	12.2	19.5
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	975.5	520.8	893.3	678.9	175.4	107.0	178.8
PRODUCTION WORKERS:							
AVERAGE FOR YEAR 1,000	76.9	53.0	67.9	55.6	15.6	8.9	13.1
MARCH DO	76.3	48.9	66.3	53.3	14.8	8.5	12.3
MAY DO	76.3	52.5	67.1	55.0	15.6	8.8	12.6
AUGUST DO	77.9	55.5	68.3	57.3	16.0	9.6	13.4
NOVEMBER DO	77.0	55.0	70.1	56.8	15.9	9.0	13.7
MAN-HOURS MILLIONS	152.3	104.2	133.5	108.6	29.5	17.6	25.6
JANUARY-MARCH DO	37.3	23.7	32.7	25.5	6.9	3.9	6.0
APRIL-JUNE DO	38.3	26.1	35.3	27.0	7.6	4.4	6.2
JULY-SEPTEMBER DO	38.4	27.2	32.7	28.0	7.6	4.7	6.6
OCTOBER-DECEMBER DO	38.4	27.3	34.9	28.0	7.4	4.6	6.8
WAGES MILLION DOLLARS	635.4	330.3	593.1	454.3	108.7	69.0	102.2
COST OF MATERIALS, ETC., TOTAL DO	2 199.9	1 085.0	1 632.8	1 397.0	269.6	338.6	619.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	1 762.1	961.3	1 435.5	1 252.4	238.1	299.6	506.3
COST OF REALES DO	247.1	84.1	111.6	88.2	15.4	14.5	99.6
FUELS CONSUMED DO	12.3	8.9	14.2	9.1	2.2	2.0	2.3
PURCHASED ELECTRIC ENERGY DO	19.6	10.1	18.1	10.6	2.9	2.1	4.7
CONTRACT WORK DO	158.8	20.5	53.4	36.7	11.1	20.4	6.1
VALUE OF SHIPMENTS, INCLUDING REALES DO	3 920.1	2 077.6	3 338.5	2 680.2	573.7	622.6	980.4
VALUE OF REALES DO	299.5	100.7	137.2	123.0	18.7	21.0	118.9
VALUE ADDED BY MANUFACTURE DO	1 730.7	1 003.7	1 758.4	1 302.3	311.8	279.6	362.2
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL DO	817.3	272.2	574.3	369.0	83.7	101.7	145.1
FINISHED PRODUCTS DO	68.8	83.9	58.5	104.8	19.1	29.8	57.3
WORK IN PROCESS DO	468.0	51.4	319.1	86.0	29.8	24.3	20.7
MATERIALS, SUPPLIES, FUEL, ETC. DO	280.4	136.8	196.7	178.2	34.8	47.6	67.1
END OF YEAR, TOTAL DO	828.5	309.4	643.0	403.0	93.0	98.8	152.3
FINISHED PRODUCTS DO	80.1	93.1	53.2	115.7	21.2	27.5	59.8
WORK IN PROCESS DO	467.3	53.3	377.2	94.1	35.5	22.3	19.0
MATERIALS, SUPPLIES, FUEL, ETC. DO	281.1	163.0	212.6	193.1	36.3	49.2	73.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	78.9	54.5	83.3	64.0	17.7	11.5	28.0
NEW PLANT AND EQUIPMENT, TOTAL DO	74.7	52.1	77.3	59.2	17.0	11.3	26.2
NEW STRUCTURES AND ADDITIONS TO PLANT DO	22.2	17.9	24.7	17.0	6.5	3.6	9.6
NEW MACHINERY AND EQUIPMENT DO	52.5	34.2	52.6	42.2	10.4	7.7	16.6
USED PLANT AND EQUIPMENT DO	4.2	2.4	6.0	4.8	.8	.2	1.8

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3441-- FABRICATED STRUCTURAL METAL											
ESTABLISHMENTS, TOTAL	2 154	104.3	975.5	76.9	152.3	635.4	1 730.7	2 199.9	3 920.1	74.7	828.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	343	.7	6.5	.7	1.1	4.3	16.1	20.1	36.7	1.1	6.6
5 TO 9 EMPLOYEES E5	313	2.1	19.5	1.6	3.1	13.0	37.4	38.0	75.3	1.4	9.6
10 TO 19 EMPLOYEES E1	404	5.7	53.5	4.2	8.2	34.6	94.7	112.0	206.0	3.9	25.1
20 TO 49 EMPLOYEES E1	597	19.1	182.0	14.3	27.5	119.1	343.4	372.6	711.1	15.5	88.1
50 TO 99 EMPLOYEES	236	16.3	152.4	12.1	24.4	99.1	266.1	348.2	616.6	12.2	90.2
100 TO 249 EMPLOYEES	184	28.0	259.5	20.1	41.1	161.0	470.9	631.2	1 094.4	18.9	208.3
250 TO 499 EMPLOYEES	67	23.8	219.0	17.6	34.6	148.3	371.0	482.0	840.5	15.0	209.3
500 TO 999 EMPLOYEES	8	8.6	83.1	6.3	12.3	55.9	131.2	195.8	339.3	6.8	191.4
1,000 TO 2,499 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	379	1.5	12.5	1.2	2.2	8.2	23.6	29.2	52.9	.9	9.0
3442-- METAL DOORS, SASH, AND TRIM											
ESTABLISHMENTS, TOTAL E1	1 558	70.7	520.8	53.0	104.2	330.3	1 003.7	1 085.0	2 077.6	52.1	309.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	423	.8	5.5	.7	1.2	3.5	13.3	14.7	28.5	.7	4.4
5 TO 9 EMPLOYEES E6	253	1.7	12.3	1.3	2.5	7.7	25.1	25.6	50.6	.9	7.1
10 TO 19 EMPLOYEES E2	236	3.2	23.9	2.3	4.5	14.4	46.1	51.3	96.7	1.7	13.5
20 TO 49 EMPLOYEES E1	276	8.7	62.0	6.5	12.5	38.7	118.4	133.0	249.5	11.1	36.3
50 TO 99 EMPLOYEES E1	182	12.6	92.9	9.4	18.4	56.1	177.0	199.2	374.5	9.7	53.4
100 TO 249 EMPLOYEES E1	132	20.4	143.9	15.4	30.1	93.0	284.4	309.8	588.5	12.5	90.6
250 TO 499 EMPLOYEES	43	14.5	109.0	11.0	21.8	71.2	198.5	197.6	395.8	9.4	60.6
500 TO 999 EMPLOYEES	13	8.8	71.2	6.4	13.3	45.9	140.8	153.6	293.7	6.1	43.5
ESTABS. COVERED BY ADMIN. RECORD ¹ .	510	1.9	12.3	1.5	2.7	7.7	26.5	28.8	55.2	1.2	8.7

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)											
Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3443-- FABRICATED PLATEWORK, BOILER SHOPS											
ESTABLISHMENTS, TOTAL.	1 486	92.9	893.3	67.9	133.5	593.1	1 758.4	1 632.8	3 338.5	77.3	643.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	266	.5	4.7	.5	.8	3.2	11.0	9.7	20.8	.6	3.4
5 TO 9 EMPLOYEES E5	184	1.3	11.5	.9	1.8	7.7	21.1	18.3	39.2	1.0	5.9
10 TO 19 EMPLOYEES E1	241	3.4	31.4	2.6	5.2	21.5	60.4	51.1	110.5	2.7	13.1
20 TO 49 EMPLOYEES	393	12.5	119.9	9.6	19.0	81.9	226.7	216.9	436.3	10.9	69.7
50 TO 99 EMPLOYEES	204	14.3	135.9	10.9	22.0	90.1	241.8	238.2	479.2	11.4	77.6
100 TO 249 EMPLOYEES	137	20.9	196.7	15.4	30.8	132.5	361.5	376.8	727.2	17.4	143.4
250 TO 499 EMPLOYEES	36	12.3	121.6	8.6	17.4	79.5	251.2	216.3	454.0	12.8	87.9
500 TO 999 EMPLOYEES	16	10.7	112.4	7.4	14.0	69.4	252.9	239.1	489.4	11.5	94.6
1,000 TO 2,499 EMPLOYEES	7	16.9	159.1	12.0	22.5	107.2	331.8	266.3	581.6	8.9	147.3
2,500 EMPLOYEES OR MORE.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	301	1.0	8.8	.8	1.5	5.9	18.1	16.7	34.8	.8	6.4
3444-- SHEET METALWORK											
ESTABLISHMENTS, TOTAL. E1	3 116	74.0	678.9	55.6	108.6	454.3	1 302.3	1 397.0	2 680.2	59.2	403.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E4	1 086	2.0	16.5	1.8	3.0	11.1	38.5	35.0	73.9	4.6	10.2
5 TO 9 EMPLOYEES E5	533	3.5	31.7	2.6	5.1	20.8	59.7	51.3	111.4	(D)	14.4
10 TO 19 EMPLOYEES E1	565	7.9	74.4	6.0	11.5	50.6	141.7	125.9	266.1	8.1	32.3
20 TO 49 EMPLOYEES	589	18.0	162.3	13.7	26.0	110.8	324.9	340.4	660.4	13.1	88.0
50 TO 99 EMPLOYEES	212	14.3	130.9	10.8	20.5	88.5	235.9	241.9	474.3	9.6	79.1
100 TO 249 EMPLOYEES	99	15.2	143.6	11.0	22.3	92.5	265.9	291.4	552.3	12.9	90.7
250 TO 499 EMPLOYEES	24	8.1	70.3	6.2	12.9	48.7	132.1	174.3	304.5	5.7	43.5
500 TO 999 EMPLOYEES	8	5.0	49.1	3.5	7.2	31.4	103.5	136.9	237.3	5.2	44.8
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 196	3.6	29.8	3.0	5.4	19.7	60.2	54.6	114.7	2.3	16.9
3446-- ARCHITECTURAL METALWORK											
ESTABLISHMENTS, TOTAL. E2	1 459	20.9	175.4	15.6	29.5	108.7	311.8	269.6	573.7	17.0	93.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	737	1.3	9.1	1.3	2.0	6.2	21.2	16.8	38.0	.9	5.9
5 TO 9 EMPLOYEES E7	274	1.8	14.0	1.4	2.8	9.4	29.8	23.4	53.3	1.3	7.4
10 TO 19 EMPLOYEES E2	198	2.7	22.5	2.0	3.8	14.9	38.8	29.3	68.1	1.2	7.5
20 TO 49 EMPLOYEES E1	160	4.7	41.0	3.4	6.6	24.8	72.5	51.4	123.6	3.0	15.1
50 TO 99 EMPLOYEES	61	4.2	37.7	3.0	5.6	21.9	64.2	54.6	118.0	6.1	18.1
100 TO 249 EMPLOYEES	19	2.7	23.2	1.9	3.7	13.9	40.9	35.1	75.2	1.7	14.5
250 TO 499 EMPLOYEES	8	3.5	27.9	2.6	5.1	17.8	44.3	58.9	97.5	2.7	24.5
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	819	2.4	17.0	2.1	3.7	11.4	37.7	31.1	68.8	1.6	11.1
3448-- PREFABRICATED METAL BUILDINGS											
ESTABLISHMENTS, TOTAL.	159	12.2	107.0	8.9	17.6	69.0	278.6	338.6	622.6	11.3	103.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	36	.1	.5	.1	.1	.3	1.2	1.8	3.0	.1	.5
5 TO 9 EMPLOYEES E5	12	.1	.6	.1	.1	.4	1.0	1.3	2.4	(Z)	.3
10 TO 19 EMPLOYEES	23	.3	2.9	.2	.5	1.6	8.9	9.1	17.4	.5	2.8
20 TO 49 EMPLOYEES	27	.9	8.4	.7	1.3	5.2	16.1	16.9	32.2	.4	4.1
50 TO 99 EMPLOYEES E1	18	1.2	9.1	.9	1.7	5.6	20.4	27.6	43.8	1.1	7.2
100 TO 249 EMPLOYEES	30	4.6	38.2	3.3	6.4	23.2	96.5	119.7	214.1	5.8	36.6
250 TO 499 EMPLOYEES	11	5.0	47.1	3.8	7.5	32.5	135.5	162.2	309.8	3.4	52.4
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	43	.1	1.0	.1	.2	.6	2.1	3.1	5.2	.1	.8
3449-- MISCELLANEOUS METALWORK											
ESTABLISHMENTS, TOTAL. E1	418	19.5	178.8	13.1	25.6	102.2	362.2	619.0	980.4	26.2	152.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	77	.1	1.0	.1	.2	.6	4.4	5.5	9.8	1.6	1.6
5 TO 9 EMPLOYEES E4	40	.3	2.2	.2	.4	1.4	5.4	6.3	11.6	.4	2.1
10 TO 19 EMPLOYEES E2	81	1.2	9.8	.8	1.5	5.5	18.3	33.4	51.3	2.9	8.4
20 TO 49 EMPLOYEES E1	115	3.6	30.7	2.5	4.7	17.1	68.6	154.4	222.1	5.7	33.7
50 TO 99 EMPLOYEES E1	54	3.5	31.6	2.3	4.8	16.9	70.5	114.0	184.3	3.2	24.6
100 TO 249 EMPLOYEES	34	5.2	44.2	3.6	6.8	27.6	94.8	171.0	263.2	6.5	40.6
250 TO 499 EMPLOYEES	16	5.6	59.5	3.5	7.2	33.3	100.3	134.5	238.2	6.0	41.2
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	38	.1	1.1	.1	.2	.6	2.1	3.1	5.2	.1	.8

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons: e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3441	FABRICATED STRUCTURAL METAL										
	ENTIRE INDUSTRY	2 154	104.3	975.5	76.9	152.3	635.4	1 730.7	2 199.9	3 920.1	74.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 893	85.0	796.4	62.8	124.3	519.6	1 414.0	1 790.8	3 189.4	62.9
34411	FABRICATED STRUCTURAL METAL FOR BUILDINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	949	61.9	600.3	44.6	89.9	381.2	1 057.3	1 453.0	2 505.2	40.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	701	38.6	377.9	27.9	56.9	240.4	673.5	927.3	1 584.8	27.0
34412	FABRICATED STRUCTURAL METAL FOR BRIDGES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	70	11.5	102.7	8.4	16.3	67.8	177.1	223.2	415.8	7.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	39	4.2	36.9	3.2	5.8	23.7	67.5	81.4	153.1	4.8
34413	OTHER FABRICATED STRUCTURAL METAL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	241	17.6	157.5	13.7	27.3	108.9	282.9	295.9	557.1	14.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	174	12.7	112.9	10.1	19.8	79.5	210.5	194.7	385.3	10.5
3442	METAL DOORS, SASH, AND TRIM										
	ENTIRE INDUSTRY	1 558	70.7	520.8	53.0	104.2	330.3	1 003.7	1 085.0	2 077.6	52.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 460	58.8	418.3	44.4	86.3	266.6	819.8	866.1	1 673.5	37.7
34421	METAL DOORS AND FRAMES (EXCEPT STORM DOORS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	257	24.0	190.8	17.4	34.3	122.7	357.9	355.9	712.0	18.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	191	15.7	122.7	11.5	22.2	80.0	234.5	194.8	427.8	8.7
34422	METAL WINDOW SASH AND FRAMES (EXCEPT STORM SASH) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	216	20.7	142.5	16.0	31.6	90.3	274.4	335.2	607.6	17.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	134	11.1	73.4	8.6	17.0	47.0	149.6	179.2	329.2	9.1
34423	METAL MOLDING AND TRIM AND STORE FRONTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	45	3.4	27.7	2.5	5.3	17.7	58.0	54.4	110.6	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	29	2.2	16.8	1.7	3.5	11.4	32.8	33.3	65.9	1.4
34424	METAL COMB, SCREEN AND STORM SASH AND DOORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	187	9.4	65.8	7.0	13.8	39.2	130.4	153.9	281.4	4.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	132	6.1	39.5	4.5	8.7	23.4	85.4	91.5	174.6	2.9
34425	MET. WINDOW, DOOR SCREENS(Exc. Comb.), WEATHERSTP (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	51	3.9	30.1	3.2	6.4	21.2	58.2	53.8	111.2	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	27	1.6	12.7	1.3	2.7	9.3	22.8	24.4	46.9	.7
3443	FABRICATED PLATEWORK (BOILER SHOPS)										
	ENTIRE INDUSTRY	1 486	92.9	893.3	67.9	133.5	593.1	1 758.4	1 632.8	3 338.5	77.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 325	78.4	763.9	57.0	112.8	505.8	1 547.2	1 445.0	2 945.0	68.4
34431	HEAT EXCHANGERS AND STEAM CONDENSERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	84	9.8	96.9	6.9	13.8	60.8	192.3	182.0	369.1	11.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	68	8.0	78.2	5.5	11.2	48.7	163.3	151.7	309.4	10.8
34432	FABRICATED STEEL PLATE, INCL. STACKS, WELDMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	312	16.8	173.1	12.8	25.7	116.5	291.8	260.8	552.4	14.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	204	10.9	114.3	8.3	16.4	76.5	191.7	176.7	365.2	11.1
34433	STEEL POWER BOILERS, PARTS, ATTACH., OVER 15 PSI (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	52	19.9	195.3	14.4	27.4	131.4	441.4	420.1	837.9	13.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	37	17.3	171.3	12.6	23.8	115.9	379.8	376.7	735.7	12.4
34434	GAS CYLINDERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	20	2.9	27.3	2.3	4.9	20.4	46.7	50.6	95.0	3.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	16	1.9	17.0	1.5	3.2	12.8	31.2	37.4	66.9	2.6
34435	METAL TANKS, FACTORY COMPLETE, STANDARD, PRESSURE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	64	4.5	39.6	3.5	7.1	28.5	75.1	97.1	170.4	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	36	2.2	19.6	1.8	3.7	14.5	38.0	54.4	92.4	1.4
34437	METAL TANKS, FACTORY COMPLETE, STANDARD, NONPRES. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	184	7.7	63.4	6.0	11.5	43.7	105.2	133.7	237.4	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	121	4.1	33.4	3.2	6.3	22.9	55.8	79.6	134.2	3.0
34438	METAL TANKS, VESSELS, CUSTOM FAB. AT FACTORY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	149	15.2	150.0	10.3	21.5	94.4	247.7	209.9	451.0	6.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	74	5.3	53.5	3.7	7.6	34.4	83.1	65.9	146.7	2.3
34439	METAL TANKS, VESSELS, CUSTOM FAB., FIELD ERRECTED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	66	8.2	85.7	5.8	11.7	56.2	243.0	185.9	424.4	10.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	43	4.1	41.7	2.7	5.3	25.0	143.2	108.3	248.6	8.0
3444	SHEET METALWORK										
	ENTIRE INDUSTRY	3 116	74.0	678.9	55.6	108.6	454.3	1 302.3	1 397.0	2 680.2	59.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2 941	61.0	558.2	46.0	89.2	373.9	1 801.6	1 072.2	2 142.1	47.7
34442	CULVERTS, FLUMES, IRRIGATION PIPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	147	4.1	36.1	3.0	6.2	23.6	90.3	145.8	236.9	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	134	3.4	31.0	2.6	5.3	20.7	80.3	130.6	211.3	6.4
34444	METAL ROOFING AND ROOF DRAINAGE EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	77	4.1	38.3	2.9	5.9	23.4	82.4	210.5	290.4	6.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	50	1.9	17.3	1.4	2.6	10.0	39.7	83.9	124.0	3.4
34445	METAL FLOORING AND SIDING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	51	5.5	55.7	3.6	7.0	31.3	126.2	239.0	363.9	6.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	26	1.4	13.5	1.0	1.8	7.8	30.0	76.1	105.4	1.4
34446	OTHER SHEET METALWORK (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	912	40.4	380.0	30.7	60.8	261.8	686.6	560.0	1 234.0	26.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	769	31.6	298.0	24.1	47.5	206.3	542.3	400.2	932.5	19.4

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3446	ARCHITECTURAL METALWORK										
	ENTIRE INDUSTRY	1 459	20.9	175.4	15.6	29.5	108.7	311.8	269.6	573.7	17.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	1 363	16.0	128.7	12.1	22.8	81.4	232.0	204.0	429.3	10.7
3448	PREFABRICATED METAL BUILDINGS										
	ENTIRE INDUSTRY	159	12.2	107.0	8.9	17.6	69.0	279.6	338.6	622.6	11.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	136	9.5	81.7	6.9	13.8	52.0	224.0	268.3	499.4	9.7
34481	PREFABRICATED METAL INDUST. AND COMMERCIAL BLDGS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	45	6.2	57.6	4.7	9.6	40.3	152.1	200.4	361.0	4.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	34	4.0	37.1	3.1	6.4	25.7	106.5	136.6	247.5	3.2
34482	OTHER PREFAB., PORTABLE METAL BLDGS., AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	65	4.7	39.3	3.2	6.2	22.0	95.5	117.8	210.4	6.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	49	3.7	30.6	2.4	4.8	17.1	75.9	95.5	170.0	5.5
3449	MISCELLANEOUS METALWORK										
	ENTIRE INDUSTRY	418	19.5	178.8	13.1	25.6	102.2	362.2	619.0	980.4	26.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	375	16.1	146.7	10.8	21.2	84.8	304.1	536.4	842.2	23.1
34494	FABRICATED CONCRETE REINFORCING BAR AND JOISTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	122	9.2	86.1	6.0	11.8	49.8	178.4	361.1	539.9	11.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	110	8.2	77.2	5.5	10.7	45.5	160.4	328.5	489.7	10.6
34495	OTH. MISC. METAL BLDG. MATERIALS, CURTAIN WALL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	75	5.8	57.0	3.9	7.9	31.4	112.6	175.7	289.5	9.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	56	3.7	35.5	2.5	5.2	19.8	74.7	126.7	202.9	7.6

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
										Col. B or G Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3441	Fabricated structural metal.....1972..	3,920.1	3,106.5	380.4	433.2	89	3,305.9	3,106.5	199.4	93
	.....1967..	2,967.8	2,324.8	301.8	341.2	89	2,561.5	2,324.8	236.7	91
3442	Metal doors, sash, and trim.....1972..	2,077.6	1,742.5	187.1	148.0	90	1,902.9	1,742.5	160.4	91
	.....1967..	1,413.6	1,219.0	117.0	77.6	91	1,301.5	1,219.0	82.5	94
3443	Fabricated platework, (boiler shops).....1972..	3,338.5	2,850.3	248.2	240.0	92	3,265.7	2,850.3	415.4	87
	.....1967..	2,688.5	2,209.4	227.6	251.5	91	2,589.4	2,209.4	380.0	85
3444	Sheet metalwork.....1972..	2,680.2	2,235.7	245.6	198.9	90	2,650.7	2,235.7	415.0	84
	.....1967..	1,812.4	1,401.6	194.4	216.4	88	1,687.1	1,401.6	285.5	83
3446	Architectural metalwork.....1972..	573.7	477.9	62.5	33.3	88	589.4	477.9	111.5	81
	.....1967..	484.9	389.9	77.3	17.7	83	504.9	389.9	115.0	77
3448	Prefabricated metal buildings.....1972..	622.6	521.6	65.3	35.7	89	578.8	521.6	57.2	90
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3449	Miscellaneous metalwork.....1972..	980.4	763.7	68.4	148.3	91	994.6	763.7	230.9	76
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Fabricated structural metal (SIC 3441)	Metal doors, sash, and trim (SIC 3442)	Fabricated platework (boiler shops) (SIC 3443)	Sheet metalwork (SIC 3444)	Architectural metalwork (SIC 3446)	Prefabricated metal buildings (SIC 3448)	Miscellaneous metalwork (SIC 3449)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	3,920.1	2,077.6	3,338.5	2,684.1	573.1	636.8	980.4	(X)
3441	Fabricated structural metal.....	3,305.9	3,106.5	4.2	31.4	14.5	17.1	8.2	5.5	118.5
34411	Fabricated structural metal for buildings.....	1,935.0	1,844.3	3.7	15.3	6.9	15.3	7.8	3.9	37.8
34412	Fabricated structural metal for bridges.....	391.2	376.6	(under 2)	(2-5)	(2-5)	(under 2)	(under 2)	(under 2)	(2-5)
34413	Other fabricated structural metal.....	598.8	507.8	(under 2)	11.4	3.7	(under 2)	(under 2)	(under 2)	74.2
34410	Fabricated structural metal, n.s.k.....	380.9	377.8	-	(under 2)	(2-5)	-	-	(under 2)	(under 2)
3442	Metal doors, sash, and trim.....	1,902.9	8.8	1,742.5	(under 2)	23.5	5.1	(2-5)	10.8	107.4
34421	Metal doors and frames (except storm doors).....	686.7	6.3	621.4	(under 2)	7.4	3.9	(under 2)	4.1	42.4
34422	Metal window sash and frames (except storm doors).....	511.6	(under 2)	472.7	-	3.6	(under 2)	1.8	5.0	27.8
34423	Metal molding and trim and store fronts.....	148.5	(under 2)	113.7	-	8.8	(under 2)	(under 2)	1.1	23.5
34424	Metal combination screen and storm sash and doors.....	228.1	(under 2)	220.5	-	1.3	(under 2)	(under 2)	(under 2)	3.1
34425	Metal window and door screens (except combination).....	95.5	(under 2)	84.7	-	(2-5)	(under 2)	(under 2)	(under 2)	8.1
34420	Metal doors, sash, and trim, n.s.k.....	232.5	(under 2)	229.6	-	(under 2)	-	(under 2)	-	2.5
3443	Fabricated platework (boiler shops).....	3,265.7	102.1	(2-5)	2,850.3	21.8	(5-10)	-	-	278.9
34431	Heat exchangers and steam condensers.....	447.1	(under 2)	-	349.9	(under 2)	-	-	-	94.8
34432	Fabricated steelplate, including stacks and weldments.....	617.3	69.2	(2-5)	478.4	9.3	7.8	(under 2)	-	49.7
34433	Steel power boilers, parts, and attachments (over 15 PSI steam working pressure).....	728.2	(under 2)	-	682.5	(2-5)	-	-	-	42.6
34434	Gas cylinders.....	93.5	-	-	83.6	-	-	-	-	9.9
34435	Metal tanks, complete at factory (standard line, pressure).....	174.7	(under 2)	-	154.4	(under 2)	-	-	-	19.4
34437	Metal tanks, complete at factory (standard line nonpressure).....	255.1	6.2	(under 2)	217.0	5.8	-	-	(under 2)	24.5
34438	Metal tanks and vessels, custom fabricated at factory.....	382.1	8.9	-	346.9	(under 2)	(under 2)	-	-	25.0
34439	Metal tanks and vessels, custom fabricated and field erected.....	369.3	15.3	-	349.5	(under 2)	-	-	(under 2)	3.7
34430	Fabricated platework, n.s.k.....	198.4	(under 2)	(under 2)	188.1	(under 2)	-	-	-	9.3
3444	Sheet metalwork.....	2,650.7	62.1	55.2	22.9	2,235.7	9.8	18.2	7.0	239.8
34442	Culverts, flumes, and irrigation pipe.....	242.0	(2-5)	13.7	10.2	207.2	-	(under 2)	(under 2)	5.7
34444	Metal roofing and roof drainage equipment.....	422.4	19.6	(2-5)	-	254.4	(under 2)	11.2	(under 2)	131.7
34445	Metal flooring and siding.....	301.7	10.2	13.4	(under 2)	260.0	(under 2)	(2-5)	(under 2)	13.0
34446	Other sheet metal work.....	1,187.9	25.5	23.0	12.3	1,029.2	9.2	2.6	5.9	80.2
34440	Sheet metalwork, n.s.k.....	496.7	(under 2)	(under 2)	(under 2)	484.7	-	(under 2)	-	9.2
3446	Architectural metalwork.....	589.4	47.1	3.9	-	15.1	477.9	-	6.1	39.3
3448	Prefabricated metal buildings....	578.8	18.5	(2-5)	(under 2)	12.3	(under 2)	521.6	(5-10)	20.6
34481	Prefabricated metal industrial and commercial buildings.....	258.9	8.2	-	(under 2)	2.4	(under 2)	240.3	4.8	2.4
34482	Other prefabricated and portable metal buildings.....	311.4	10.2	(2-5)	(under 2)	10.8	(under 2)	262.8	(2-5)	18.2
34480	Prefabricated metal buildings, n.s.k.....	8.5	-	-	-	-	-	8.5	-	-
3449	Miscellaneous metalwork.....	994.6	58.5	30.4	8.0	23.8	-	-	763.7	110.2
34494	Fabricated concrete reinforcing bars and bar joists...	583.3	52.5	-	(5-10)	(under 2)	-	-	431.8	92.3
34495	Other miscellaneous metal building materials and curtain wall (except reinforcing bars).....	273.6	(5-10)	26.6	(under 2)	(20-50)	-	-	206.6	10.9
34490	Miscellaneous metalwork, n.s.k.....	137.7	(under 2)	3.7	(under 2)	-	-	-	125.3	7.0

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Fabricated structural metal (SIC 3441)	Metal doors, sash, and trim (SIC 3442)	Fabricated platework (boiler shops) (SIC 3443)	Sheet metalwork (SIC 3444)	Architectural metalwork (SIC 3446)	Prefabricated metal buildings (SIC 3448)	Miscellaneous metalwork (SIC 3449)	Other industries
	Other product shipments by 4-digit product group:									
2431	Millwork.....	(X)	-	12.1	-	-	(under 2)	(under 2)	-	(X)
2452	Prefabricated wood buildings...	(X)	-	(2-5)	-	-	-	-	(under 2)	(X)
2542	Metal partitions and fixtures...	(X)	(under 2)	2.6	(under 2)	3.3	.2	(2-5)	(under 2)	(X)
2599	Furniture and fixtures, n.e.c.	(X)	(under 2)	-	-	(2-5)	-	-	-	(X)
2819	Industrial inorganic chemicals, n.e.c.....	(X)	-	-	(10-20)	-	-	-	-	(X)
2851	Paints and allied products.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3079	Misc. plastics products.....	(X)	(2-5)	5.6	(under 2)	3.1	(under 2)	(under 2)	(under 2)	(X)
3312	Blast furnaces and steel mills.	(X)	(2-5)	-	(2-5)	(5-10)	-	-	-	(X)
3315	Steel wire and related products	(X)	-	-	-	-	(under 2)	-	(under 2)	(X)
3317	Steel pipe and tubes.....	(X)	-	(under 2)	-	(under 2)	-	(2-5)	-	(X)
3321	Gray iron foundries.....	(X)	(2-5)	(under 2)	.8	-	-	-	-	(X)
3354	Aluminum extruded products.....	(X)	-	(10-20)	-	-	-	-	-	(X)
3412	Metal barrels, drums, pails....	(X)	(5-10)	-	(under 2)	(2-5)	-	-	-	(X)
3429	Hardware, n.e.c.....	(X)	.7	7.2	(under 2)	(under 2)	.4	-	-	(X)
3433	Heating equipment, except electric.....	(X)	(under 2)	(under 2)	16.9	1.4	(under 2)	-	-	(X)
3452	Bolts, nuts, rivets, washers...	(X)	(2-5)	-	-	-	-	-	(2-5)	(X)
3463	Nonferrous forgings.....	(X)	-	-	(5-10)	-	-	-	-	(X)
3465	Automotive stampings.....	(X)	(2-5)	(under 2)	(under 2)	-	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	3.6	7.4	(2-5)	8.3	(under 2)	(under 2)	(under 2)	(X)
3479	Metal coating and allied services.....	(X)	(under 2)	(under 2)	.3	10.2	-	-	-	(X)
3494	Valves and pipe fittings.....	(X)	(under 2)	-	10.8	(2-5)	(under 2)	-	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	2.3	(under 2)	(under 2)	.5	1.4	(under 2)	10.4	(X)
3499	Fabricated metal products, n.e.c.	(X)	(under 2)	1.5	5.2	11.0	3.1	-	(under 2)	(X)
3511	Turbines and turbine generator sets.....	(X)	-	-	3.6	-	-	-	-	(X)
3519	Internal combustion engines, n.e.c.....	(X)	-	-	(5-10)	-	-	-	-	(X)
3523	Farm machinery and equipment...	(X)	4.8	(2-5)	2.4	2.5	(under 2)	3.5	-	(X)
3531	Construction machinery.....	(X)	8.1	-	5.7	1.0	(under 2)	-	-	(X)
3535	Conveyors and conveying equipment.....	(X)	(2-5)	-	2.9	2.9	(under 2)	-	(under 2)	(X)
3536	Hoists, cranes, and monorails..	(X)	(under 2)	-	3.7	-	-	-	-	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	.6	(under 2)	(under 2)	.2	(under 2)	-	(2-5)	(X)
3551	Food products machinery.....	(X)	-	-	4.6	(under 2)	-	-	-	(X)
3552	Textile machinery.....	(X)	4.2	-	(under 2)	-	-	-	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	(2-5)	-	12.3	(under 2)	-	-	-	(X)
3563	Air and gas compressors.....	(X)	-	-	(2-5)	-	-	-	-	(X)
3564	Blowers and fans.....	(X)	(under 2)	-	2.8	2.8	(2-5)	(2-5)	(under 2)	(X)
3567	Industrial furnaces and ovens..	(X)	-	-	1.0	(2-5)	-	-	-	(X)
3569	Other industrial machinery, n.e.c.....	(X)	3.7	-	13.0	5.6	(under 2)	-	(under 2)	(X)
3573	Electronic computing equipment.	(X)	-	(5-10)	(under 2)	-	-	-	-	(X)
3585	Refrigeration and heating equipment.....	(X)	-	.1	(5-10)	(10-20)	-	-	-	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	2.6	-	4.4	1.3	-	-	(under 2)	(X)
3634	Electric housewares and fans...	(X)	-	-	-	(2-5)	-	-	-	(X)
3648	Lighting equipment, n.e.c.....	(X)	-	(2-5)	-	-	(under 2)	-	-	(X)
3662	Radio and TV communication equipment.....	(X)	(2-5)	(2-5)	(under 2)	(under 2)	-	-	(under 2)	(X)
3713	Truck and bus bodies.....	(X)	(2-5)	-	3.7	(5-10)	-	-	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	(under 2)	(under 2)	(2-5)	(under 2)	-	-	-	(X)
3715	Truck trailers.....	(X)	(2-5)	-	(2-5)	(under 2)	-	(2-5)	-	(X)
3724	Aircraft engines and engine parts.....	(X)	(under 2)	-	(2-5)	-	-	-	-	(X)
3799	Transportation equipment, n.e.c..	(X)	(under 2)	(under 2)	(under 2)	(5-10)	-	-	-	(X)
3825	Instruments to measure electricity.....	(X)	-	-	(2-5)	-	-	-	-	(X)
3995	Burial caskets.....	(X)	-	(under 2)	(2-5)	-	-	-	-	(X)
	Miscellaneous receipts.....	(X)	433.2	148.0	240.0	198.9	33.3	35.7	148.3	(X)
93000	Contract work.....	(X)	26.6	6.1	36.5	27.7	1.6	3.3	4.9	(X)
99989	Resales.....	(X)	299.5	100.7	137.2	123.0	18.7	21.0	118.9	(X)
99980	Other.....	(X)	107.1	41.2	66.3	48.2	13.0	11.4	24.5	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3441	3312 Blast furnaces and steel mills.....	(10-20)	3443	3585 Refrigeration and heating equipment.....	28.0
	3317 Steel pipe and tubes.....	(2-5)		3589 Service industry machines, n.e.c.....	2.4
	3321 Gray iron foundries.....	5.4		3599 Machinery, except electrical, n.e.c.....	2.1
	3355 Aluminum pulling and drawing, n.e.c.....	(2-5)		3639 Household appliances, n.e.c.....	(5-10)
	3452 Bolts, nuts, rivets and washers.....	(2-5)			
	3462 Iron and steel forgings.....	(2-5)	3714	Motor vehicle parts and accessories.....	(2-5)
	3469 Metal stampings, n.e.c.....	(5-10)		3715 Truck trailers.....	4.9
	3499 Fabricated metal products, n.e.c.....	(5-10)		3724 Aircraft engines and engine parts.....	(20-50)
				3731 Ship building and repairing.....	3.1
	3511 Turbines and turbine generator sets.....	(10-20)		3743 Railroad equipment.....	2.7
	3531 Construction machinery.....	(2-5)		3769 Space vehicle equipment, n.e.c.....	(5-10)
	3536 Hoists, cranes and monorails.....	(2-5)		3823 Process control instruments.....	(2-5)
	3541 Machine tools, metal cutting types.....	(5-10)		3999 Manufacturing industries, n.e.c.....	(2-5)
	3559 Special industry machinery, n.e.c.....	(2-5)			
	3689 Service industry machines, n.e.c.....	(2-5)	3444	3312 Blast furnaces and steel mills.....	60.3
	3644 Noncurrent-carrying wiring devices.....	(5-10)		3353 Aluminum sheet, plate and foil.....	71.4
	3731 Ship building and repairing.....	7.8		3354 Aluminum extruded products.....	(5-10)
	3743 Railroad equipment.....	(10-20)		3433 Heating equipment except electric.....	5.0
				3452 Bolts, nuts, rivets and washers.....	(2-5)
3442	2431 Millwork.....	26.7		3469 Metal stampings, n.e.c.....	6.8
	2499 Wood products, n.e.c.....	8.3		3499 Fabricated metal products, n.e.c.....	2.9
	3079 Miscellaneous plastics products.....	(2-5)			
	3271 Concrete block and brick.....	(2-5)		3564 Blowers and fans.....	4.3
	3354 Aluminum extruded products.....	39.5		3576 Scales and balances, except laboratory.....	(2-5)
	3429 Hardware, n.e.c.....	5.0		3585 Refrigeration and heating equipment.....	8.8
	3714 Motor vehicle parts and accessories.....	(5-10)		3599 Machinery, except electrical, n.e.c.....	2.2
				3621 Motors and generators.....	(2-5)
3443	3312 Blast furnaces and steel mills.....	14.7		3631 Household cooking equipment.....	(5-10)
	3317 Steel pipe and tubes.....	(5-10)		3646 Commercial lighting fixtures.....	(2-5)
	3321 Gray iron foundries.....	(5-10)			
	3324 Steel investment foundries.....	(2-5)		3713 Truck and bus bodies.....	(2-5)
	3356 Nonferrous rolling and drawing, n.e.c.....	(2-5)		3714 Motor vehicle parts and accessories.....	4.8
	3423 Hand and edge tools, n.e.c.....	(2-5)		3799 Transportation equipment, n.e.c.....	(2-5)
	3433 Heating equipment, except electric.....	8.3		3822 Environmental controls.....	(5-10)
	3469 Metal stampings, n.e.c.....	(5-10)			
	3483 Ammunition except for small arms.....	(2-5)	3446	2591 Drapery hardware and blinds and shades.....	(2-5)
	3494 Valves and pipe fittings.....	5.1		3316 Cold finishing of steel shapes.....	(5-10)
	3499 Fabricated metal products, n.e.c.....	2.8		3469 Metal stampings, n.e.c.....	2.1
				3535 Conveyors and conveying equipment.....	4.0
	3511 Turbines and turbine generator sets.....	(20-50)		3585 Refrigeration and heating equipment.....	(5-10)
	3519 Internal combustion engines, n.e.c.....	2.4		3731 Ship building and repairing.....	(2-5)
	3523 Farm machinery and equipment.....	2.6			
	3533 Oil field machinery.....	(2-5)	3448	3354 Aluminum extruded products.....	(2-5)
	3551 Food products machinery.....	8.5		3728 Aircraft equipment, n.e.c.....	(5-10)
	3554 Paper industries machinery.....	(5-10)			
	3559 Special industries machinery, n.e.c.....	5.6	3449	3275 Gypsum products.....	(2-5)
	3561 Pumps and pumping equipment.....	6.6		3312 Blast furnaces and steel mills.....	87.9
	3564 Blowers and fans.....	2.0		3469 Metal stampings, n.e.c.....	2.9
	3569 General industries machinery, n.e.c.....	4.2		3589 Service industry machinery, n.e.c.....	(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3441- --	FABRICATED STRUCTURAL METAL, TOTAL.....		(X)	3,305.9	(X)	2,561.5
34411 --	Fabricated Structural Metal for Buildings.....		¹ 4,782.4	1,935.0	¹ 4,240.4	1,430.3
	Iron and steel (for sale to other companies):					
34411 21	Industrial.....	1,000 s. tons.	1,554.3	594.7	1,785.4	585.1
34411 25	Commercial, residential, and institutional.....	..do.....	1,193.5	432.6	931.9	293.7
34411 27	Public utilities.....	..do.....	205.8	90.2	155.6	55.3
	Iron and steel (for installation by own company on site of construction):					
34411 61	Industrial.....	..do.....	553.8	260.1	634.8	222.5
34411 65	Commercial, residential, and institutional.....	..do.....	916.8	372.9	471.9	164.5
34411 67	Public utilities.....	..do.....	144.9	66.4	59.9	20.3
34411 71	Aluminum.....	..do.....	34.8	46.7	24.2	29.6
34411 00	Fabricated structural metal for building, n.s.k. ¹		^e 178.5	71.4	^e 176.7	59.3
34412 --	Fabricated Structural Metal for Bridges.....		¹ 782.7	391.2	¹ 860.0	312.2
	Iron and steel (for sale to other companies):					
34412 11	Highway bridges, trestles, and viaducts.....	1,000 s. tons.	501.7	236.5	567.2	196.0
34412 15	Railway bridges, trestles, and viaducts.....	..do.....	24.8	12.2	15.9	5.7
34412 51	Iron and steel bridges, trestles, and viaducts (highway and railway, for installation by own company on site of construction).....	..do.....	202.9	112.6	166.0	62.5
34412 71	Aluminum.....	..do.....	^e 3.3	5.8	^e 6.9	10.3
34412 00	Fabricated structural metal for bridges, n.s.k. ¹		^e 50.0	24.1	^e 104.0	37.7
34413 --	Other Fabricated Structural Metal.....		¹ 1,171.1	598.8	¹ 1,256.6	550.6
	Iron and steel (for sale to other companies):					
34413 11	For ships, boats, and barges.....	1,000 s. tons.	31.9	23.5	38.2	24.2
34413 41	For transmission towers, substations, radio antenna towers, and supporting structures.....	..do.....	175.5	92.8	294.1	120.9
34413 53	For offshore oil and gas platforms.....	..do.....	101.1	53.8		
34413 55	For tunneling and subway work.....	..do.....				
34413 59	Other fabricated structural iron and steel (excluding pressure vessels, storage tanks, fabricated reinforcing bars, bar joists, fabricated metal buildings, steel flooring, and roof decks).....	..do.....	452.0	211.9	579.3	244.7
	Iron and steel (for installation by own company on site of construction or for shipbuilding):					
34413 61	For ships, boats, and barges.....	..do.....	² 81.9	² 37.8	² 63.7	² 23.7
34413 71	For transmission towers, substations, radio antenna towers, and supporting structures.....	..do.....	68.5	39.7	54.6	24.4
34413 81	Other fabricated structural iron and steel, including dam locks and dam gates (excluding pressure vessels, and storage tanks, fabricated reinforcing bars, bar joists, fabricated metal buildings, steel flooring, and roof decks).....	..do.....	188.5	97.6	134.6	52.5
34413 84	Aluminum, for ships, boats, barges, transmission towers, and other structures (excluding tanks, fabricated metal buildings, etc.).....	..do.....	3.8	6.4	^e 12.0	25.1
34413 98	Structural metal, other than iron, steel, or aluminum.....	..do.....	^e 14.3	7.9	^e 33.3	14.6
34413 00	Other fabricated structural metal, n.s.k. ¹		^e 53.6	27.4	^e 46.8	20.5
34410 00	Fabricated structural metal, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	320.7	(X)	250.2
34410 02	Fabricated structural metal, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	60.2	(X)	18.2
3442- --	METAL DOORS, SASH, AND TRIM, TOTAL.....		(X)	1,902.9	(X)	1,301.5
34421 --	Metal Doors and Frames (Except Storm Doors).....		(X)	³ 686.7	(X)	345.7
	Aluminum doors:					
34421 05	Industrial:					
	Overhead.....	1,000 units...	29.4	7.3		
34421 07	Sliding.....	..do.....	(NA)	11.7	(NA)	39.3
34421 09	All other.....	..do.....	152.9	19.9		
	Residential:					
34421 11	Swing.....	..do.....	1,372.0	45.9	(³)	(³)
34421 12	Closet.....	..do.....	132.9	4.2		
34421 16	Sliding (glass, patio type).....	..do.....	1,247.9	94.5	688.6	41.4
34421 18	All other, including garage, but excluding shower doors and tub enclosures.....	..do.....	666.9	17.7	(NA)	31.8
	Commercial and institutional, excluding shower doors and tub enclosures:					
34421 21	Overhead and sliding.....	..do.....	58.2	6.4		
34421 22	Swing.....	..do.....	229.2	45.0	(NA)	47.4
34421 23	All other.....	..do.....	356.1	26.7		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3442- --	METAL DOORS, SASH, AND TRIM--Continued					
34421 --	Metal Doors and Frames (Except Storm Doors)--Continued					
	Iron and steel doors, including stainless steel doors:					
	Industrial:					
34421 24	Overhead.....	...do.....	184.5	36.0	(NA)	41.6
34421 25	Swing.....	...do.....	287.3	17.2	(NA)	18.8
34421 26	All other, including sliding.....	...do.....	83.6	25.0		
	Residential:					
34421 27	Garage.....	...do.....	116.8	8.3	160.7	11.9
34421 29	All other, including slide, swing, and closet, but excluding shower doors and tub enclosures.....	...do.....	2,104.0	65.7	(NA)	5.0
	Commercial and institutional, excluding shower doors and tub enclosures:					
34421 32	Overhead and sliding.....	...do.....	35.5	8.2	(NA)	7.4
34421 34	Swing.....	...do.....	739.7	35.5	(NA)	23.2
34421 36	All other.....	...do.....	257.8	13.0	(NA)	3.3
34421 39	Metal doors other than steel or aluminum.....	...do.....	(NA)	6.2	(NA)	
	Metal doorframes, including trim sold as integral part of doorframe:					
34421 42	Aluminum.....	...do.....	927.7	49.5	248.8	12.7
	Steel:					
34421 43	16 gage and heavier.....	...do.....	1,816.3	40.1	1,382.9	28.5
34421 44	Lighter than 16 gage.....	...do.....	894.4	19.2		
34421 45	Shower doors and tub enclosures.....	...do.....	1,208.8	29.4	(NA)	11.1
34421 00	Metal doors and frames, n.s.k.....	.....	(X)	54.1	(X)	22.3
34422 --	Metal Window Sash and Frames (Except Storm Sash).....	.....	(X)	511.6	(X)	257.5
	Residential:					
	Steel:					
34422 12	Casement.....	1,000 units...	8.2	.4	(NA)	5.4
34422 19	All other.....	...do.....	916.9	11.0	502.5	3.9
	Aluminum:					
34422 21	Single and double-hung.....	...do.....	7,195.9	108.1	4,163.1	48.8
34422 22	Awning.....	...do.....	1,513.3	43.4	(NA)	25.2
34422 23	Jalousie.....	...do.....	433.4	10.7	(NA)	26.9
34422 24	Horizontal sliding.....	...do.....	7,100.5	141.3	2,670.2	40.0
34422 29	All other.....	...do.....	11,493.6	41.0	(NA)	12.9
	Other, including commercial, industrial, etc.:					
34422 35	Steel.....	...do.....	265.8	11.2	408.3	15.5
	Aluminum:					
34422 41	Single and double-hung.....	...do.....	694.7	16.7	(NA)	13.5
34422 42	Awning.....	...do.....	1,752.8	17.3	(NA)	8.0
34422 43	Projected.....	...do.....	164.5	8.7	(NA)	17.1
34422 49	All other.....	...do.....	1,922.4	41.9	(NA)	14.2
34422 98	Metal window sash and frames, other than steel or aluminum.....	...do.....	106.2	9.9		
34422 00	Metal window sash and frames, n.s.k.....	.....	(X)	50.0	(X)	26.1
34423 --	Metal Molding and Trim and Storefronts.....	.....	(X)	148.5	(X)	145.0
	Metal molding and trim:					
	Steel.....	.....	(X)	30.7	(X)	43.1
34423 25	Aluminum.....	.....	(X)	87.6	(X)	86.3
34423 51	Metal storefronts, sold complete at factory.....	.....	(X)	9.9	(X)	6.0
34423 00	Metal molding and trim and storefronts, n.s.k.....	.....	(X)	20.3	(X)	9.6
34424 --	Metal Combination Screen and Storm Sash and Doors.....	.....	(X)	228.1	(X)	198.2
34424 11	Metal storm sash.....	1,000 units...	552.1	2.9	(NA)	21.6
	Metal combination screen and storm sash:					
34424 21	Steel.....	...do.....	(NA)	4.9	(NA)	6.1
34424 25	Aluminum.....	...do.....	14,270.2	124.0	12,944.3	116.8
	Metal combination screen and storm doors:					
34424 41	Steel.....	...do.....	118.8	3.6	(NA)	7.1
34424 45	Aluminum.....	...do.....	3,037.4	77.3	2,184.0	42.6
34424 00	Metal combination screen and storm sash and doors, n.s.k.....	.....	(X)	15.4	(X)	4.0

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3442- --	METAL DOORS, SASH, AND TRIM--Continued					
34425 --	Metal Window and Door Screens (Except Combination) and Metal Weatherstrip.....		(X)	95.5	(X)	61.5
34425 11	Screen doors, metal.....	1,000 units...	705.5	6.0	713.2	7.9
	Window screens with metal frames, including tension and roll types:					
34425 21	Steel.....	...do.....	(NA)	1.2	(NA)	4.5
34425 25	Aluminum.....	...do.....	16,464.5	50.1	14,551.7	30.6
34425 51	Weatherstrip, metal.....	...do.....	348.9	35.2	481.8	15.0
34425 00	Metal window and door screens (except combination), and metal weatherstrip, n.s.k.....		(X)	3.0	(X)	3.5
34420 00	Metal doors, sash, and trim, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	177.3	(X)	257.6
34420 02	Metal doors, sash, and trim, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	55.2	(X)	36.0
3443- --	FABRICATED PLATEWORK (BOILERSHOP PRODUCTS), TOTAL.....		(X)	3,265.7	(X)	2,589.4
34431 --	Heat Exchangers and Steam Condensers.....		(X)	447.1	(X)	343.5
34431 11	Heat exchangers, closed types, industrial: Bare tube.....	1,000 sq. ft. (heat transfer surface).	(NA)	262.3	(NA)	243.4
34431 15	Fin tube.....	...do.....	(NA)	100.0	(NA)	47.5
34431 51	Steam condensers.....	1,000 sq. ft. (condensing surface).....	(NA)	66.9	(NA)	36.7
34431 00	Heat exchangers and steam condensers, n.s.k.....		(X)	17.9	(X)	15.9
34432 --	Fabricated Steelplate, Including Stacks and Weldments.....		(X)	617.3	(X)	517.9
34432 31	Stacks (smoke or other).....	1,000 s. tons.	(NA)	40.6	(NA)	25.4
34432 51	Weldments.....	...do.....	306.4	179.2	(NA)	124.8
	Fabricated steelplate (factory assembled or formed and prepared for field erection):					
34432 11	For large-diameter pipe (over 36" diameter for pipelines, penstocks, tunnel linings, etc.).....	...do.....	191.6	109.4	411.1	138.6
34432 98	Fabricated steelplate for other purposes.....	...do.....	519.3	264.5	(NA)	207.4
34432 00	Fabricated steelplate, including stacks and weldments, n.s.k....		(X)	23.6	(X)	21.7
34433 --	Steel Power Boilers, Parts, and Attachments (Over 15 PSI Steam Working Pressure).....		(X)	728.2	(X)	521.7
	Stationary power boilers: ⁴					
	Water tube:					
	10,000 lbs./hr. and under:					
34433 12	Over 15 to 499 p.s.i. steam working pressure.....	Units.....	1,358.0	15.7	1,844.0	32.7
34433 14	450 p.s.i. steam working pressure and over.....	...do.....	317.0	8.0		
	10,001 lbs./hr. to 100,000 lbs./hr:					
34433 16	Over 15 to 449 p.s.i. steam working pressure.....	...do.....	340.0	21.0	187.0	9.4
34433 18	450 p.s.i. steam working pressure and over.....	...do.....				
	100,001 lbs./hr. to 250,000 lbs./hr:					
34433 21	Over 15 to 449 p.s.i. steam working pressure.....	...do.....	89.0	15.8	72.0	8.2
34433 23	450 p.s.i. steam working pressure and over.....	...do.....	69.0	20.0	100.0	24.8
	250,001 lbs./hr. and over:					
34433 31	Over 15 to 499 p.s.i. steam working pressure.....	...do.....	(5)	(5)	149.0	347.7
34433 33	450 p.s.i. steam working pressure and over.....	...do.....				
	Fire tube:					
34433 36	Horizontal return, tubular.....	...do.....	8,927.0	43.9	1,055.0	4.5
	Scotch type (package steam generators):					
34433 37	Steampressure type.....	...do.....			5,022.0	31.8
34433 38	Hot-water type.....	...do.....			1,077.0	5.9
34433 39	Other types.....	...do.....	783.0	1.4	724.0	2.4
34433 41	Marine boilers.....	...do.....	(NA)	26.6	(X)	47.5
34433 52	Parts and attachments for steel powerboilers, sold separately...		(X)	*563.8		
34433 00	Steel power boilers, parts, and attachments (over 15 p.s.i. steam working pressure), n.s.k.....		(X)	12.0	(X)	6.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3443- --	FABRICATED PLATEWORK (BOILERSHOP PRODUCTS)--Continued					
34434 --	Gas Cylinders.....		(X)	93.5	(X)	72.2
34434 11	For liquefied petroleum gas.....	1,000 units...	1,285.8	25.5	(NA)	20.6
34434 19	Other gas cylinders.....	...do.....	4,958.3	65.8	(NA)	51.2
34434 00	Gas cylinders, n.s.k.....	.....	(X)	2.2	(X)	.4
34435 --	Metal Tanks, Complete at Factory (Standard Line, Pressure).....		(X)	174.7	(X)	120.2
34435 12	Truck tanks for delivery of liquefied petroleum gas (butane, propane, etc.).....	1,000 units...	.8	8.7	(NA)	6.6
	All other liquefied petroleum gas tanks (under 3,000-gallon capacity):					
34435 22	Carbon steel.....	...do.....	490.4	64.2	170.6	26.0
34435 24	Other metals and alloys, except aluminum, including stainless steel.....	...do.....	(NA)	12.4	(NA)	9.3
34435 26	Aluminum.....	...do.....	(NA)	1.9	(NA)	2.0
34435 35	Air receivers.....	...do.....	(NA)	11.2	(NA)	5.0
34435 38	Other pressure tanks, including anhydrous ammonia under 3,000 gallon capacity, but excluding range boilers, expansion tanks, hot-water storage tanks and tanks for water heaters sold separately.....	...do.....	(NA)	61.2	(X)	57.0
34435 00	Metal tanks, complete at factory (standard line, pressure), n.s.k.....	.....	(X)	15.1	(X)	14.3
34437 --	Metal Tanks, Complete at Factory (Standard Line, Nonpressure).....		(X)	255.1	(X)	177.3
	Nonpressure storage tanks:					
	Bulk storage, including aboveground, underground and inside storage tanks:					
	Carbon steel:					
34437 11	6,000-gallon or less capacity.....	1,000 units...	(NA)	60.2	186.8	38.5
34437 13	Over 6,000-gallon capacity.....	...do.....	45.5	60.8	39.7	35.1
	Alloy, including stainless steel, nickel, etc., excluding aluminum:					
34437 14	Dairy processing plant storage tanks for milk (stainless steel).....	...do.....	(NA)	20.9	(NA)	17.5
34437 16	Other.....	...do.....	(NA)	17.3	23.9	10.7
34437 18	Aluminum.....	...do.....	(NA)		(NA)	2.5
34437 21	Basement oil-storage tanks.....	...do.....	223.7	9.6	164.3	5.2
34437 25	Oilfield, bolted.....	...do.....	(NA)	6.7	2.4	6.4
34437 27	Farm storage tanks, with or without supports.....	...do.....	(NA)	12.3	(NA)	12.1
	Truck tanks (for delivery of fluids, excluding trailer tanks), except fuel supply tanks for motor vehicles (gas tanks):					
34437 43	For liquid fuels (excluding liquefied petroleum gas tanks)....	...do.....	(NA)	20.1	5.9	15.9
34437 45	For other fluids.....	...do.....	(NA)	12.7	(NA)	4.6
34437 98	Other nonpressure tanks including tanks for trailers and metal septic tanks.....	.....	(X)	18.4	(X)	18.4
34437 00	Metal tanks, complete at factory (standard line, pressure), n.s.k.....	.....	(X)	16.1	(X)	10.4
34438 --	Metal Tanks and Vessels, Custom Fabricated at the Factory.....		(X)	382.1	(X)	464.8
	Pressure vessels and tanks (over 24" outside diameter and not less than 5 cu. ft. capacity), including process vessels, tanks and kettles for refineries, chemical plants, papermills, and other processing industries, except tanks for liquefied petroleum gas:					
	Carbon steel:					
34438 03	3/4-inch wall thickness and under.....	1,000 s. tons.	165.5	120.5	180.2	105.9
34438 05	Over 3/4-inch wall thickness.....	...do.....	82.7	72.6	(NA)	138.5
34438 06	Alloy, including stainless steel, nickel, etc., excluding aluminum.....	...do.....	25.0	54.4	35.8	51.0
34438 08	Aluminum.....	...do.....	(NA)	7.0	8.2	23.0
34438 15	Liquefied petroleum gas tanks, 3,000-gallon capacity and over...	...do.....	28.2	15.4	(NA)	17.1
34438 18	All other tanks and vessels, custom fabricated at the factory, including anhydrous ammonia tanks 3,000-gallon capacity and over.....	.....	(X)	91.4	(X)	120.5
34438 00	Metal tanks and vessels, custom fabricated at the factory, n.s.k.....	.....	(X)	20.8	(X)	8.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3443- --	FABRICATED PLATEWORK (BOILERSHOP PRODUCTS)--Continued					
34439 --	Metal Tanks and Vessels, Custom Fabricated and Field Erected.....		(X)	369.3	(X)	176.1
	Bulk storage tanks:					
	Water:					
34439 22	Elevated types.....	1,000 s. tons.	70.1	41.7	(NA)	28.6
34439 24	Other types.....	..do.....	75.9	47.0	(NA)	17.6
34439 26	Petroleum and petroleum products.....	..do.....	178.9	88.5	138.6	37.9
34439 33	Other.....	..do.....	76.2	48.2	(NA)	30.9
	Pressure vessels and tanks, including gasholders and process vessels, tanks, and kettles for refineries, chemical plants, papermills, and other processing industries:					
	Carbon steel, including gasholders:					
34439 53	3/4-inch thickness and under.....	..do.....	24.2	19.3	(NA)	28.9
34439 55	Over 3/4-inch wall thickness.....	..do.....	46.9	35.9	(NA)	9.5
34439 59	Alloy, including stainless steel, nickel, aluminum, etc.....	..do.....	(NA)	69.1	(NA)	15.7
34439 00	Metal tanks and vessels, custom fabricated and field erected, n.s.k.....		(X)	19.6	(X)	7.3
34430 00	Fabricated platework (boilershop), n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	161.4	(X)	180.7
34430 02	Fabricated platework (boilershop), n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	37.0	(X)	15.0
3444- --	SHEET METALWORK, TOTAL.....		(X)	2,650.7	(X)	1,687.1
34442 --	Culverts, Flumes, Irrigation Pipe.....		(X)	242.0	(X)	169.9
	Culverts, flumes, irrigation pipe, and similar products:					
34442 13	Steel.....		(X)	196.7	(X)	145.8
34442 15	Aluminum.....		(X)	28.5	(X)	18.7
34442 19	Other metals.....		(X)	9.9	(X)	1.6
34442 00	Culverts, flumes, irrigation pipe, n.s.k.....		(X)	6.9	(X)	3.8
34444 --	Metal Roofing and Roof Drainage Equipment ⁶		(X)	422.4	(X)	⁶ 408.5
	Metal roofing:					
34444 11	Steel, all types.....	1,000 s. tons.	808.3	233.6	⁷ 725.7	⁷ 179.5
34444 13	Aluminum, all types.....	..do.....	80.8	80.0	50.4	38.1
34444 15	Other metal, all types.....	..do.....	3.2	2.9	(NA)	⁸ 3.2
	Roof drainage equipment, including eave troughs, etc.:					
34444 23	Steel.....	..do.....	92.0	42.8	(NA)	24.7
34444 27	Copper.....	..do.....	1.3	2.8	(NA)	2.1
34444 29	Aluminum.....	..do.....	47.0	43.5	(NA)	6.0
34444 00	Metal roofing and roof drainage equipment, n.s.k. ⁹		(X)	16.8	(X)	21.4
34445 --	Metal Flooring and Siding ⁶		(X)	301.7	(X)	⁷ 133.5
34445 05	Fabricated metal flooring.....	1,000 s. tons.	112.9	41.1	121.6	33.1
	Metal siding:					
34445 16	Steel.....	..do.....	169.1	71.3	(⁷)	(⁷)
	Aluminum:					
34445 17	Residential.....	..do.....	165.7	159.4	(NA)	85.8
34445 18	Other (commercial, industrial, farm buildings, etc.).....	..do.....	8.2	9.9	11.3	14.6
34445 19	Other metals.....	..do.....	73.2	20.0	(NA)	(⁸)
34446 --	Other Sheet Metalwork ⁶ ⁸		(X)	1,187.9	(X)	722.9
34446 11	Cornices, skylights, ceiling domes, copings, and gravel stops...		(X)	31.8	(X)	11.3
34446 15	Roof ventilators.....		(X)	29.6	(X)	25.2
	Bins and vats:					
34446 21	Grain, excluding drying floors, fans, heaters, etc.....		(X)	60.0	(X)	26.1
34446 25	Other, including feed storage.....		(X)	13.7	(X)	14.9
	Other sheet-metal products:					
	Stovepipe furnace smokepipe, elbows, ducts:					
34446 32	Aluminum.....		(X)	23.4	(X)	48.7
34446 34	Steel.....		(X)	103.1	(X)	54.8
	Air-conditioning ducts, including dust-collecting ducts:					
34446 36	Aluminum.....		(X)	17.4	(X)	20.9
34446 37	Steel.....		(X)	139.6	(X)	56.5
	Restaurant, hotel, and kitchen sheet-metal equipment such as table tops, drainboard tops, etc.:					
34446 42	Aluminum.....		(X)	7.7	(X)	14.9
34446 44	Steel.....		(X)	60.8	(X)	37.9
	Metal awning, canopies, carports and patios, assembled or unassembled, prefabricated types:					
34446 46	Aluminum.....		(X)	70.4	(X)	34.0
34446 47	Steel.....		(X)	15.8	(X)	13.8
34446 51	Soffits, fascia, and shutters, aluminum.....		(X)	41.5	(X)	11.1

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3444- --	SHEET METALWORK--Continued					
34446 --	Other Sheet Metalwork--Continued					
	Other sheet metal products:					
	Other sheet metalwork, except cornices, skylights, ceiling					
	domes, copings, gravel stops, roof ventilators, bins and vats:					
34446 62	Steel.....		(X)	329.2	(X)	200.4
34446 64	Aluminum.....		(X)	103.6	(X)	50.4
34446 98	Other metals.....		(X)	26.9	(X)	21.5
34446 00	Other sheet metalwork, n.s.k.....		(X)	113.4	(X)	80.5
34440 00	Sheet metalwork, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	376.2	(X)	320.7
34440 02	Sheet metalwork, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	120.5	(X)	65.0
3446- --	ARCHITECTURAL METALWORK, TOTAL.....		(X)	589.4	(X)	504.9
	Architectural and Ornamental Metalwork (Except Curtain Wall and Other Exterior Panels):					
	Grilles, all types, including open mesh partitions:					
34460 11	Iron and steel.....	1,000 s. tons.	(NA)	50.8	^e 59.1	40.7
34460 16	Aluminum.....	..do.....	(NA)	22.7	(NA)	19.3
	Fences and gates, other than wire:					
34460 21	Iron and steel.....	..do.....	(NA)	17.8	(NA)	5.9
34460 26	Aluminum.....	..do.....	(NA)	4.1	^e .8	1.5
	Stairs, staircases, fire escapes, and railings:					
34460 31	Iron and steel.....	..do.....	128.4	92.0	^e 112.7	64.2
34460 36	Aluminum.....	..do.....	(NA)	18.4	(NA)	21.4
	Open flooring and grating for building construction:					
34460 41	Iron and steel.....	..do.....	106.4	52.6	^e 70.6	29.3
34460 46	Aluminum.....	..do.....	1.9	3.9	^e 1.5	3.3
	Other:					
34460 51	Iron and steel.....	..do.....	178.6	114.9	(NA)	174.8
34460 56	Aluminum.....	..do.....	(NA)	41.3	(NA)	26.6
34460 61	Architectural and ornamental metalwork other than aluminum or steel.....	..do.....	(NA)	10.3	(NA)	13.7
34460 00	Ornamental and structural metalwork, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	91.8	(X)	68.3
34460 02	Ornamental and structural metalwork, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	68.8	(X)	35.9
3448- --	PREFABRICATED PORTABLE METAL BUILDINGS AND PARTS.....		(X)	578.8	(X)	(NA)
34481 --	Prefabricated Metal Industrial and Commercial Buildings ⁶	1,000 units...	29.7	258.9	^e 29.3	198.0
34481 14	Steel.....	..do.....	26.7	253.7	^e 29.3	198.0
34481 24	Aluminum.....	..do.....	1.9	5.2		
34482 --	Other Prefabricated and Portable Metal Buildings and Parts ⁶		(X)	311.4	(X)	180.0
	Grain storage buildings, including farm and commercial types:					
34482 11	Steel.....	1,000 units...	4.4	16.3	10.2	53.4
34482 21	Aluminum.....	..do.....	.3	.8	(NA)	4.9
	Other farm service buildings (livestock shelters, machinery storage, etc.), excluding wood frame buildings:					
34482 12	Steel.....	..do.....	10.6	49.0	(NA)	17.8
34482 22	Aluminum.....	..do.....				
	Dwellings, including vacation homes and camps:					
34482 13	Steel.....	..do.....	.7	7.1	^e 2.7	9.7
34482 23	Aluminum.....	..do.....				
	Small utility buildings, including toolsheds, cabanas, storage houses, etc.:					
34482 16	Steel.....	..do.....	93 .6	63.9	(NA)	16.4
34482 26	Aluminum.....	..do.....	78.5	11.2	(NA)	3.4
	Other, including garages, etc.:					
34482 17	Steel.....	..do.....	6.6	10.0	(NA)	12.9
34482 27	Aluminum.....	..do.....	1.9	13.6	2.9	9.0
	Panels, parts or sections for prefabricated buildings, not sold as a complete unit, including sandwich and single-face panels:					
34482 53	Steel.....	..do.....	(NA)	61.0	(NA)	17.2
34482 55	Aluminum.....	..do.....	(NA)	15.3	(NA)	10.2
34482 00	Other prefabricated and portable metal buildings and parts, n.s.k.....		(X)	62.8	(X)	25.1
34480 00	Prefabricated metal buildings, n.s.k. for establishments with 10 employees or more. (See note.).....		(X)	3.3	(X)	(¹¹)
34480 02	Prefabricated metal buildings, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	5.2	(X)	(¹²)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3449 --	MISCELLANEOUS METALWORK.....	.....	(X)	994.6	(X)	(NA)
34494 --	Fabricated Concrete Reinforcing Bars and Jar Joists ⁶	1,000 s. tons.	2,944.2	583.3	2,951.5	479.6
34494 42	Fabricated bar joists.....	...do.....	728.5	180.9	^e 697.4	151.8
34494 52	Fabricated concrete reinforcing bars.....	...do.....	2,215.7	402.4	2,254.1	327.8
34495 --	Other Miscellaneous Metal Building Materials and Curtain Wall (Except Reinforcing Bars) ⁶.....	.....	(X)	273.6	(X)	136.2
34495 11	Metal plaster bases: Expanded metal lath.....	Mil. sq. yd...	52.5	23.7	^e 81.2	29.1
34495 32	Metal plaster base accessories, including corner beads, screeds, grounds, etc.....	.....	(X)	47.0	(X)	20.7
34495 73	Curtain wall: Steel, including stainless.....	Mil. sq. ft...	76.8	38.4	(NA)	7.4
34495 75	Aluminum.....	...do.....	484.9	102.2	(NA)	32.1
34495 79	All other, including combination of metals.....	...do.....	(NA)	12.6	(NA)	22.7
34495 00	Other miscellaneous metal building materials and curtain wall (except reinforcing bars), n.s.k.....	.....	(X)	49.7	(X)	24.2
34490 00	Miscellaneous metalwork, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	132.5	(X)	¹¹ 111.9
34490 02	Miscellaneous metalwork, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	5.2	(X)	¹² 10.7

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. ^eEstimated.

¹Includes products listed below for which quantity data were estimated.

²Does not include structural metal fabricated for own use by establishments building ships.

³In the 1967 Census of Manufactures, aluminum residential swing and closet doors were not collected separately.

⁴Data, similar to but not identical, is published in Current Industrial Reports series MA-34G. The differences are as follows: In survey MA-34G, the data represent new orders, whereas census of manufactures represent shipments; in survey MA-34G, the data relate to boilers of 100 square feet of heating surface and over, whereas the census of manufactures also includes those of under 100 square feet of heating surface.

⁵Data for product codes 34433 31 and 34433 33 are included with product code 34433 52 to avoid disclosing operations of individual companies.

⁶The relationship between product classes on the new SIC basis (1972) and the old SIC basis (1967) are as follows:

New SIC	Old SIC	New SIC	Old SIC
34444 } 34445 }	34441	34481 } 34482 }	34492
3446	34443	34494 } 34495 }	34493

⁷Steel siding, product code 34445 16, is included with steel roofing, all types, product code 34444 11.

⁸Metal siding other than steel or aluminum, product code 34445 19, is included with metal roofing of other than steel or aluminum, product code 34444 15.

⁹Data also includes metal flooring and siding, n.s.k.

¹⁰The comparable 1967 SIC product class is 34443.

¹¹For 1967, product code 34480 00 is included with product code 34490 00.

¹²For 1967, product code 34480 02 is included with product code 34490 02.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
FABRICATED STRUCTURAL METAL FOR BUILDINGS (34411)			FABRICATED STRUCTURAL METAL FOR BRIDGES (34412)--Continued		
United States.....	1,935.0	1,430.3			
Northeast Region.....	483.8	412.7	North Central Region.....	134.1	104.3
New England Division.....	97.6	59.4	East North Central Division.....	96.4	84.4
Maine.....	EE	6.6	Ohio.....	11.1	9.5
New Hampshire.....	BB	BB	Indiana.....	35.4	27.1
Vermont.....	2.8	AA	Illinois.....	33.6	15.4
Massachusetts.....	50.5	30.4	Michigan.....	6.1	26.1
Rhode Island.....	2.9	3.0	Wisconsin.....	10.2	6.3
Connecticut.....	26.3	15.0	West North Central Division.....	37.7	19.9
Middle Atlantic Division.....	386.1	353.3	Minnesota.....	7.7	2.9
New York.....	135.1	105.1	Iowa.....	EE	7.7
New Jersey.....	69.4	66.4	Missouri.....	CC	4.0
Pennsylvania.....	181.7	181.8	South Dakota.....	BB	(NA)
North Central Region.....	506.3	434.8	Nebraska.....	BB	1.9
East North Central Division.....	374.7	319.2	Kansas.....	CC	2.7
Ohio.....	88.6	75.2	South Region.....	112.5	74.3
Indiana.....	82.7	56.6	South Atlantic Division.....	49.2	27.8
Illinois.....	105.7	88.4	Virginia.....	24.7	10.8
Michigan.....	61.3	74.3	West Virginia.....	BB	(NA)
Wisconsin.....	36.4	24.7	North Carolina.....	7.5	9.0
West North Central Division.....	131.6	115.6	South Carolina.....	BB	(NA)
Minnesota.....	32.8	25.1	Georgia.....	CC	3.6
Iowa.....	28.4	27.7	Florida.....	BB	2.0
Missouri.....	37.1	38.2	East South Central Division.....	35.4	21.5
North Dakota.....	BB	AA	Tennessee.....	12.9	EE
South Dakota.....	BB	BB	Alabama.....	FF	EE
Nebraska.....	11.5	7.5	Mississippi.....	AA	(NA)
Kansas.....	17.2	13.7	West South Central Division.....	27.9	25.1
South Region.....	665.0	393.2	Arkansas.....	BB	AA
South Atlantic Division.....	293.4	153.5	Louisiana.....	BB	AA
Maryland.....	32.6	EE	Oklahoma.....	7.0	9.6
District of Columbia.....	AA	BB	Texas.....	14.3	12.3
Virginia.....	66.4	35.8	West Region.....	32.2	28.1
West Virginia.....	EE	3.0	Mountain Division.....	11.9	5.0
North Carolina.....	67.4	27.0	Colorado.....	BB	BB
South Carolina.....	43.4	27.0	Arizona.....	AA	AA
Georgia.....	26.2	17.1	Utah.....	6.7	(NA)
Florida.....	42.2	23.3	Pacific Division.....	20.3	23.2
East South Central Division.....	121.2	96.4	Washington.....	CC	BB
Kentucky.....	6.8	3.7	California.....	14.7	16.9
Tennessee.....	35.9	37.6			
Alabama.....	56.8	37.6	OTHER FABRICATED STRUCTURAL METAL (34413)		
Mississippi.....	21.7	15.6	United States.....	598.8	550.6
West South Central Division.....	250.4	143.2	Northeast Region.....	136.7	106.8
Arkansas.....	35.0	16.2	New England Division.....	26.3	7.0
Louisiana.....	27.6	19.2	Massachusetts.....	21.0	BB
Oklahoma.....	29.1	20.5	Rhode Island.....	BB	(NA)
Texas.....	158.6	87.3	Connecticut.....	BB	BB
West Region.....	280.0	189.7	Middle Atlantic Division.....	110.4	99.8
Mountain Division.....	62.6	32.2	New York.....	21.0	10.0
Idaho.....	3.9	2.1	New Jersey.....	6.3	9.7
Wyoming.....	AA	(NA)	Pennsylvania.....	83.0	80.1
Colorado.....	22.0	11.5	North Central Region.....	160.7	140.6
New Mexico.....	BB	1.5	East North Central Division.....	137.4	119.5
Arizona.....	21.1	8.4	Ohio.....	52.4	35.8
Utah.....	6.8	5.7	Indiana.....	24.1	14.0
Nevada.....	BB	AA	Illinois.....	25.2	25.0
Pacific Division.....	217.3	157.5	Michigan.....	22.9	29.2
Washington.....	30.3	26.2	Wisconsin.....	12.8	15.5
Oregon.....	EE	12.2	West North Central Division.....	23.3	21.1
California.....	173.8	118.8	Minnesota.....	2.5	5.8
			Iowa.....	BB	(NA)
			Missouri.....	8.7	BB
			Nebraska.....	BB	1.2
			Kansas.....	5.4	CC
			South Region.....	226.7	157.7
			South Atlantic Division.....	39.0	43.2
			Maryland.....	10.5	16.5
			Virginia.....	BB	7.8
			West Virginia.....	BB	AA
			North Carolina.....	CC	2.2
			South Carolina.....	CC	BB
			Georgia.....	2.9	4.9
			Florida.....	5.0	7.9
FABRICATED STRUCTURAL METAL FOR BRIDGES (34412)					
United States.....	391.2	312.2			
Northeast Region.....	112.5	105.5	South Region.....	226.7	157.7
New England Division.....	12.6	12.5	South Atlantic Division.....	39.0	43.2
Maine.....	BB	BB	Maryland.....	10.5	16.5
New Hampshire.....	AA	CC	Virginia.....	BB	7.8
Massachusetts.....	CC	BB	West Virginia.....	BB	AA
Middle Atlantic Division.....	99.9	92.9	North Carolina.....	CC	2.2
New York.....	CC	8.9	South Carolina.....	CC	BB
New Jersey.....	EE	16.2	Georgia.....	2.9	4.9
Pennsylvania.....	79.2	67.8	Florida.....	5.0	7.9

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER FABRICATED STRUCTURAL METAL (34413)--Con.			METAL WINDOW SASH AND FRAMES (EXCEPT STORM SASH) (34422)		
South Region--Continued			United States.....	511.6	257.5
East South Central Division.....	28.4	8.9	Northeast Region.....	73.1	41.2
Kentucky.....	BB	(NA)	New England Division.....	9.3	8.7
Tennessee.....	5.5	(NA)	Massachusetts.....	5.4	5.3
Alabama.....	11.5	7.3	Connecticut.....	2.2	2.1
Mississippi.....	CC	(1)	Middle Atlantic Division.....	63.8	32.5
West South Central Division.....	159.7	105.7	New York.....	16.3	13.7
Arkansas.....	EE	AA	New Jersey.....	4.4	5.2
Louisiana.....	FF	FF	Pennsylvania.....	43.2	13.6
Oklahoma.....	33.8	FF	North Central Region.....	162.1	77.0
Texas.....	60.0	46.1	East North Central Division.....	131.3	58.3
West Region.....	74.7	145.5	Ohio.....	56.9	21.4
Mountain Division.....	24.8	15.4	Indiana.....	20.2	(NA)
Montana.....	AA	(NA)	Illinois.....	11.4	11.2
Arizona.....	EE	CC	Michigan.....	35.5	18.0
Utah.....	10.1	BB	Wisconsin.....	7.3	7.0
Pacific Division.....	49.9	130.0	West North Central Division.....	30.8	18.6
Washington.....	12.0	14.1	Minnesota.....	8.1	CC
Oregon.....	BB	1.3	Iowa.....	BB	(NA)
California.....	34.8	114.5	Missouri.....	8.8	7.6
METAL DOORS AND FRAMES (EXCEPT STORM DOORS) (34421)			Nebraska.....	AA	(NA)
United States.....	686.7	345.7	Kansas.....	10.2	BB
Northeast Region.....	154.7	91.3	South Region.....	187.4	101.4
New England Division.....	26.9	9.8	South Atlantic Division.....	101.6	65.7
Massachusetts.....	12.3	6.1	Maryland.....	CC	BB
Rhode Island.....	BB	(NA)	Virginia.....	BB	2.4
Connecticut.....	BB	BB	North Carolina.....	BB	(NA)
Middle Atlantic Division.....	127.8	81.6	South Carolina.....	BB	BB
New York.....	69.1	47.2	Georgia.....	23.9	12.4
New Jersey.....	21.8	12.2	Florida.....	60.8	43.9
Pennsylvania.....	36.8	22.2	East South Central Division.....	25.9	12.1
North Central Region.....	221.7	134.7	Kentucky.....	EE	AA
East North Central Division.....	199.6	120.6	Tennessee.....	2.9	3.7
Ohio.....	77.6	37.7	Alabama.....	CC	3.2
Indiana.....	35.4	17.9	Mississippi.....	CC	BB
Illinois.....	33.7	20.0	West South Central Division.....	59.9	23.6
Michigan.....	50.9	44.0	Louisiana.....	BB	(NA)
Wisconsin.....	2.0	1.1	Oklahoma.....	BB	(NA)
West North Central Division.....	22.2	14.1	Texas.....	51.5	22.0
Minnesota.....	4.5	4.3	West Region.....	89.0	37.9
Iowa.....	BB	1.3	Mountain Division.....	9.9	3.6
Missouri.....	BB	6.3	Idaho.....	AA	(NA)
Kansas.....	3.6	1.6	Colorado.....	BB	AA
South Region.....	208.6	66.0	Arizona.....	BB	AA
South Atlantic Division.....	108.7	44.2	Utah.....	AA	(NA)
Maryland.....	CC	AA	Pacific Division.....	79.1	34.3
Virginia.....	17.3	7.0	Washington.....	11.4	2.7
North Carolina.....	6.3	AA	Oregon.....	CC	1.6
South Carolina.....	BB	(NA)	California.....	58.7	30.0
Georgia.....	34.6	14.7			
Florida.....	41.7	18.5	METAL MOLDING AND TRIM AND STORE FRONTS (34423)		
East South Central Division.....	31.6	8.6	United States.....	148.5	145.0
Kentucky.....	9.5	AA	Northeast Region.....	18.6	22.1
Tennessee.....	13.0	3.0	New England Division.....	8.4	4.1
Alabama.....	CC	BB	New Hampshire.....	CC	BB
Mississippi.....	BB	(NA)	Rhode Island.....	AA	(NA)
West South Central Division.....	68.3	13.1	Middle Atlantic Division.....	10.2	18.0
Arkansas.....	18.7	(NA)	New York.....	6.4	CC
Louisiana.....	BB	1.8	Pennsylvania.....	BB	BB
Oklahoma.....	AA	1.1	North Central Region.....	59.5	56.0
Texas.....	44.9	9.8	East North Central Division.....	GG	GG
West Region.....	101.7	53.6	Ohio.....	5.6	3.6
Mountain Division.....	5.2	2.0	Indiana.....	13.1	BB
Colorado.....	AA	(NA)	Illinois.....	14.2	19.2
New Mexico.....	1.8	AA	Michigan.....	25.7	27.7
Utah.....	AA	(NA)			
Pacific Division.....	96.4	51.6			
Washington.....	BB	AA			
Oregon.....	5.6	BB			
California.....	86.5	47.3			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
METAL MOLDING AND TRIM AND STORE FRONTS (34423)—Continued			METAL WINDOW AND DOOR SCREENS (EXCEPT COMBINATION) AND WEATHERSTRIPPING (34425)—Continued		
South Region.....	45.3	56.6	North Central Region.....	35.5	21.4
South Atlantic Division.....	17.3	FF	East North Central Division.....	28.0	18.2
North Carolina.....	AA	(NA)	Ohio.....	11.1	1.6
Georgia.....	13.7	FF	Illinois.....	CC	CC
Florida.....	AA	(NA)	Michigan.....	CC	2.2
East South Central Division.....	14.0	CC	West North Central Division.....	7.5	3.3
Kentucky.....	EE	CC	Minnesota.....	AA	(NA)
Tennessee.....	BB	(NA)	Iowa.....	BB	AA
West South Central Division.....	14.0	4.5	Missouri.....	BB	(NA)
Oklahoma.....	BB	BB			
Texas.....	CC	AA	South Region.....	32.4	23.1
West Region.....	25.2	11.2	South Atlantic Division.....	17.0	11.0
Pacific Division.....	FF	EE	Virginia.....	AA	(NA)
California.....	FF	CC	Georgia.....	AA	1.4
			Florida.....	12.7	8.7
METAL COMBINATION SCREEN AND STORM SASH AND DOORS (34424)			East South Central Division.....	4.5	4.2
United States.....	228.1	198.2	Tennessee.....	BB	(NA)
Northeast Region.....	72.5	59.7	Alabama.....	BB	(NA)
New England Division.....	12.5	11.3	West South Central Division.....	10.9	7.9
Massachusetts.....	5.4	7.3	Oklahoma.....	CC	BB
Connecticut.....	4.8	2.8	Texas.....	CC	BB
Middle Atlantic Division.....	60.0	48.4			
New York.....	23.2	16.9	West Region.....	18.7	6.3
New Jersey.....	15.1	10.5	Pacific Division.....	18.2	CC
Pennsylvania.....	21.6	21.0	California.....	17.2	CC
North Central Region.....	79.6	78.3			
East North Central Division.....	57.4	59.5	HEAT EXCHANGERS AND STEAM CONDENSERS (34431)		
Ohio.....	31.9	31.1	United States.....	447.1	343.5
Illinois.....	13.4	11.9	Northeast Region.....	216.1	157.6
Michigan.....	7.8	11.6	New England Division.....	7.2	10.2
Wisconsin.....	3.4	2.5	Massachusetts.....	BB	BB
West North Central Division.....	22.0	18.8	Rhode Island.....	AA	(NA)
Minnesota.....	AA	4.3	Connecticut.....	BB	BB
Iowa.....	8.0	1.5	Middle Atlantic Division.....	209.0	147.4
Missouri.....	5.4	10.0	New York.....	82.5	59.5
South Dakota.....	AA	(NA)	New Jersey.....	31.1	23.6
Nebraska.....	1.3	1.1	Pennsylvania.....	95.4	64.3
Kansas.....	4.4	1.6	North Central Region.....	47.5	65.2
South Region.....	67.7	55.3	East North Central Division.....	35.6	FF
South Atlantic Division.....	23.6	25.6	Ohio.....	BB	CC
Maryland.....	2.5	14.4	Indiana.....	BB	(NA)
Virginia.....	3.6	2.7	Illinois.....	EE	8.4
North Carolina.....	8.5	4.3	Michigan.....	5.0	BB
Georgia.....	AA	(NA)	Wisconsin.....	EE	19.0
Florida.....	6.3	AA	West North Central Division.....	11.9	FF
East South Central Division.....	30.0	20.1	Iowa.....	BB	(NA)
Kentucky.....	1.6	5.1	Missouri.....	CC	FF
Tennessee.....	CC	5.8			
Mississippi.....	FF	BB	South Region.....	154.7	109.9
West South Central Division.....	14.0	9.6	South Atlantic Division.....	21.2	14.5
Arkansas.....	EE	CC	Virginia.....	BB	(NA)
Oklahoma.....	AA	BB	North Carolina.....	EE	CC
Texas.....	2.0	(NA)	East South Central Division.....	20.4	4.4
West Region.....	8.4	11.2	Kentucky.....	AA	AA
Mountain Division.....	1.6	(NA)	Tennessee.....	EE	1.5
Pacific Division.....	6.7	EE	Alabama.....	AA	AA
Washington.....	BB	BB	Mississippi.....	AA	(NA)
California.....	BB	CC	West South Central Division.....	113.1	91.0
			Louisiana.....	2.2	BB
METAL WINDOW AND DOOR SCREENS (EXCEPT COMBINATION) AND WEATHERSTRIPPING (34425)			Oklahoma.....	60.2	56.1
United States.....	95.5	61.5	Texas.....	50.6	FF
Northeast Region.....	8.9	10.6	West Region.....	28.8	10.7
New England Division.....	BB	(NA)	Pacific Division.....	28.6	10.7
Massachusetts.....	BB	(NA)	California.....	FF	10.4
Middle Atlantic Division.....	BB	9.7			
New York.....	AA	1.8	FABRICATED STEEL PLATE, INCLUDING STACKS AND WELD FRONTS (34432)		
New Jersey.....	1.1	4.4	United States.....	617.3	517.9
Pennsylvania.....	2.0	3.4	Northeast Region.....	173.5	144.9
			New England Division.....	20.3	20.0
			New Hampshire.....	AA	(NA)
			Massachusetts.....	13.3	14.4
			Connecticut.....	4.0	4.4

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
FABRICATED STEEL PLATE, INCLUDING STACKS AND WELDMENTS (34432)--Continued			STEEL POWER BOILERS, PARTS, AND ATTACHMENTS, OVER 15 PSI (34433)--Continued		
Northeast Region--Continued			South Region.....	GG	268.2
Middle Atlantic Division.....	153.2	124.9	South Atlantic Division.....	GG	GG
New York.....	16.6	11.2	Virginia.....	FF	FF
New Jersey.....	27.8	12.1	North Carolina.....	FF	FF
Pennsylvania.....	108.8	101.6	Georgia.....	FF	EE
North Central Region.....	252.0	181.4	East South Central Division.....	GG	GG
East North Central Division.....	177.3	134.9	Kentucky.....	BB	BB
Ohio.....	69.7	61.3	Tennessee.....	GG	GG
Indiana.....	7.7	9.8	Mississippi.....	GG	FF
Illinois.....	35.4	30.6	West South Central Division.....	FF	FF
Michigan.....	34.2	17.7	Oklahoma.....	CC	CC
Wisconsin.....	30.3	15.5	Texas.....	FF	EE
West North Central Division.....	74.7	46.4	West Region.....	17.1	5.2
Minnesota.....	9.0	6.5	Pacific Division.....	EE	BB
Iowa.....	EE	5.0	Washington.....	BB	(NA)
Missouri.....	43.8	30.6	California.....	15.0	BB
Nebraska.....	BB	(NA)			
Kansas.....	8.0	3.9	GAS CYLINDERS (34434)		
South Region.....	94.8	114.3	United States.....	93.5	72.2
South Atlantic Division.....	44.0	31.4	Northeast Region.....	12.6	FF
Delaware.....	1.3	BB	New England Division.....	BB	(NA)
Maryland.....	6.5	8.3	Rhode Island.....	AA	(NA)
Virginia.....	11.2	10.0	Middle Atlantic Division.....	EE	FF
West Virginia.....	8.2	(NA)	New Jersey.....	BB	BB
North Carolina.....	2.2	1.5	Pennsylvania.....	CC	EE
Georgia.....	2.5	(NA)	North Central Region.....	43.1	27.7
Florida.....	11.2	CC	East North Central Division.....	43.1	27.7
East South Central Division.....	13.8	33.8	Ohio.....	CC	AA
Tennessee.....	6.1	1.8	Indiana.....	EE	CC
Alabama.....	5.7	FF	Illinois.....	BB	BB
Mississippi.....	AA	CC	Wisconsin.....	EE	EE
West South Central Division.....	37.0	49.2	South Region.....	20.1	EE
Arkansas.....	1.5	(NA)	South Atlantic Division.....	CC	CC
Louisiana.....	12.0	1.5	Virginia.....	BB	(NA)
Oklahoma.....	5.0	2.5	Georgia.....	CC	BB
Texas.....	18.5	44.2	East South Central Division.....	EE	CC
West Region.....	97.0	77.3	Tennessee.....	EE	CC
Mountain Division.....	28.0	13.3	West Region.....	17.7	EE
Colorado.....	9.4	3.5	Pacific Division.....	17.7	EE
Arizona.....	CC	(NA)	California.....	EE	EE
Utah.....	10.4	8.4			
Pacific Division.....	69.0	64.0	METAL TANKS, FACTORY COMPLETE, STANDARD PRESSURE (34435)		
Washington.....	CC	5.2	United States.....	174.7	120.2
Oregon.....	8.8	12.7	Northeast Region.....	24.3	16.8
California.....	55.0	45.9	New England Division.....	14.4	5.1
			New Hampshire.....	BB	AA
			Massachusetts.....	BB	(NA)
			Rhode Island.....	CC	BB
			Middle Atlantic Division.....	9.9	11.7
			Pennsylvania.....	9.2	9.8
			North Central Region.....	59.7	28.1
			East North Central Division.....	48.3	21.6
			Ohio.....	11.3	BB
			Indiana.....	AA	1.4
			Illinois.....	23.1	9.8
			Michigan.....	3.2	BB
			Wisconsin.....	CC	4.7
			West North Central Division.....	11.4	6.5
			Minnesota.....	CC	BB
			Missouri.....	BB	(NA)
			Nebraska.....	BB	BB
STEEL POWER BOILERS, PARTS, AND ATTACHMENTS, OVER 15 PSI (34433)					
United States.....	728.2	521.7			
Northeast Region.....	207.0	135.8			
New England Division.....	GG	CC			
Connecticut.....	GG	CC			
Middle Atlantic Division.....	GG	GG			
New York.....	FF	FF			
New Jersey.....	EE	BB			
Pennsylvania.....	87.0	GG			
North Central Region.....	GG	112.5			
East North Central Division.....	GG	GG			
Ohio.....	GG	GG			
Indiana.....	FF	EE			
Illinois.....	BB	BB			
Michigan.....	BB	EE			
West North Central Division.....	14.8	CC			
Minnesota.....	AA	BB			
Iowa.....	CC	BB			
South Dakota.....	BB	(NA)			
Nebraska.....	AA	(NA)			
Kansas.....	BB	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
METAL TANKS, FACTORY COMPLETE, STANDARD PRESSURE (34435)—Continued			METAL TANKS, VESSELS, CUSTOM FABRICATED FACTORY (34438)		
South Region.....	67.9	56.0	United States.....	382.1	464.8
South Atlantic Division.....	18.1	12.9	Northeast Region.....	79.8	74.2
Virginia.....	BB	BB	New England Division.....	12.9	7.7
North Carolina.....	CC	BB	New Hampshire.....	CC	(NA)
South Carolina.....	BB	(NA)	Massachusetts.....	5.6	CC
Georgia.....	BB	6.1	Connecticut.....	BB	AA
Florida.....	BB	(NA)	Middle Atlantic Division.....	66.9	66.5
East South Central Division.....	16.5	5.9	New York.....	18.5	6.0
Kentucky.....	BB	(NA)	New Jersey.....	15.6	10.8
Tennessee.....	CC	BB	Pennsylvania.....	32.8	49.8
Mississippi.....	7.8	BB			
West South Central Division.....	33.3	37.2	North Central Region.....	110.3	148.7
Louisiana.....	CC	CC	East North Central Division.....	71.8	134.4
Oklahoma.....	18.8	FF	Ohio.....	19.9	55.1
Texas.....	CC	10.7	Indiana.....	FF	FF
			Illinois.....	17.9	FF
West Region.....	22.7	19.4	Michigan.....	CC	12.9
Mountain Division.....	4.0	2.1	Wisconsin.....	8.1	7.6
Colorado.....	2.0	AA	West North Central Division.....	38.5	14.3
Utah.....	AA	(NA)	Minnesota.....	7.5	2.6
Pacific Division.....	18.8	17.3	Iowa.....	AA	AA
Washington.....	AA	(NA)	Missouri.....	19.8	7.7
California.....	EE	16.3	Kansas.....	9.5	BB
			South Region.....	156.5	197.0
METAL TANKS, FACTORY COMPLETE, STANDARD, NONPRESSURE (34437)			South Atlantic Division.....	16.4	23.9
United States.....	255.1	177.3	Maryland.....	BB	BB
Northeast Region.....	40.5	28.3	Virginia.....	BB	2.1
New England Division.....	7.6	6.8	North Carolina.....	AA	3.9
Maine.....	AA	(NA)	South Carolina.....	AA	(NA)
Massachusetts.....	CC	CC	Georgia.....	3.0	BB
Middle Atlantic Division.....	32.9	21.5	Florida.....	3.2	4.4
New York.....	11.8	7.8	East South Central Division.....	28.0	51.9
New Jersey.....	8.1	6.6	Kentucky.....	3.6	AA
Pennsylvania.....	13.0	7.1	Tennessee.....	BB	6.8
			Alabama.....	15.7	FF
North Central Region.....	95.8	76.8	Mississippi.....	BB	(NA)
East North Central Division.....	60.1	38.8	West South Central Division.....	112.1	121.2
Ohio.....	10.4	8.7	Louisiana.....	FF	FF
Indiana.....	11.4	5.3	Oklahoma.....	FF	23.5
Illinois.....	9.7	9.6	Texas.....	57.7	69.4
Michigan.....	13.6	5.3			
Wisconsin.....	15.1	9.9	West Region.....	35.5	44.8
West North Central Division.....	35.7	38.0	Mountain Division.....	1.8	10.1
Minnesota.....	9.5	CC	Pacific Division.....	33.7	34.7
Iowa.....	2.1	(NA)	Washington.....	1.6	(NA)
Missouri.....	17.9	18.2	Oregon.....	1.2	(NA)
Kansas.....	4.0	2.8	California.....	30.9	32.8
South Region.....	84.6	50.1	METAL TANKS, VESSELS, CUSTOM FABRICATED FIELD ERECTED (34439)		
South Atlantic Division.....	29.4	EE	United States.....	369.3	176.1
Maryland.....	1.4	1.5	Northeast Region.....	55.9	31.8
Virginia.....	5.5	2.6	New England Division.....	BB	1.6
North Carolina.....	11.8	2.9	Massachusetts.....	BB	1.6
South Carolina.....	BB	1.1	Middle Atlantic Division.....	GG	30.2
Georgia.....	3.2	2.3	New Jersey.....	1.3	2.5
Florida.....	4.9	2.2	Pennsylvania.....	51.7	26.6
East South Central Division.....	13.4	CC			
Kentucky.....	4.5	BB	North Central Region.....	87.2	38.2
Tennessee.....	AA	(NA)	East North Central Division.....	49.0	25.8
Alabama.....	CC	CC	Ohio.....	9.0	8.1
West South Central Division.....	41.8	27.8	Indiana.....	22.3	CC
Arkansas.....	5.2	3.0	Illinois.....	EE	9.2
Louisiana.....	1.9	3.5	Wisconsin.....	AA	(NA)
Oklahoma.....	9.8	9.0	West North Central Division.....	38.2	12.4
Texas.....	24.9	12.3	Minnesota.....	5.8	2.1
			Iowa.....	BB	BB
West Region.....	34.2	22.0	Missouri.....	FF	1.6
Mountain Division.....	10.9	5.4	Kansas.....	4.6	BB
Colorado.....	2.3	2.0			
New Mexico.....	1.7	AA	South Region.....	177.9	62.7
Arizona.....	3.2	(NA)	South Atlantic Division.....	90.5	14.9
Utah.....	1.5	(NA)	Delaware.....	CC	BB
Pacific Division.....	23.3	16.6	Maryland.....	BB	(NA)
Washington.....	3.7	3.4	Virginia.....	CC	AA
Oregon.....	4.9	(NA)	Georgia.....	CC	7.8
California.....	14.4	12.1	Florida.....	GG	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
METAL TANKS, VESSELS, CUSTOM FABRICATED FIELD ERECTED (34439)—Continued			METAL ROOFING AND ROOF DRAINAGE EQUIPMENT (34444) ¹		
South Region--Continued			United States.....	422.4	(NA)
East South Central Division.....	39.5	13.6	Northeast Region.....	74.6	(NA)
Kentucky.....	BB	AA	New England Division.....	2.0	(NA)
Tennessee.....	BB	2.7	Middle Atlantic Division.....	72.6	(NA)
Alabama.....	FF	CC	New York.....	7.9	(NA)
Mississippi.....	AA	(NA)	New Jersey.....	15.6	(NA)
West South Central Division.....	47.9	34.2	Pennsylvania.....	49.0	(NA)
Louisiana.....	AA	3.6	North Central Region.....	189.3	(NA)
Oklahoma.....	BB	BB	East North Central Division.....	145.8	(NA)
Texas.....	43.6	25.5	Ohio.....	92.2	(NA)
West Region.....	48.3	43.4	Indiana.....	17.9	(NA)
Mountain Division.....	31.2	22.2	Illinois.....	17.2	(NA)
Arizona.....	BB	(NA)	Michigan.....	4.0	(NA)
Utah.....	28.5	FF	Wisconsin.....	14.4	(NA)
Pacific Division.....	17.1	21.1	West North Central Division.....	43.5	(NA)
Washington.....	AA	(NA)	Minnesota.....	AA	(NA)
California.....	15.3	19.7	Iowa.....	FF	(NA)
			Missouri.....	CC	(NA)
			Kansas.....	BB	(NA)
CULVERTS, FLUMES, IRRIGATION PIPE (34442)			South Region.....	124.0	(NA)
United States.....	242.0	169.9	South Atlantic Division.....	67.0	(NA)
Northeast Region.....	22.3	20.8	Delaware.....	AA	(NA)
New England Division.....	5.7	7.2	Maryland.....	BB	(NA)
Maine.....	1.7	AA	West Virginia.....	FF	(NA)
Massachusetts.....	BB	BB	North Carolina.....	14.2	(NA)
Middle Atlantic Division.....	16.5	13.6	South Carolina.....	CC	(NA)
New York.....	5.1	CC	Georgia.....	BB	(NA)
New Jersey.....	3.7	(NA)	Florida.....	8.3	(NA)
Pennsylvania.....	7.7	7.4	East South Central Division.....	38.7	(NA)
North Central Region.....	79.7	60.6	Kentucky.....	BB	(NA)
East North Central Division.....	47.5	35.2	Tennessee.....	26.2	(NA)
Ohio.....	16.4	13.8	Alabama.....	BB	(NA)
Indiana.....	17.5	12.2	Mississippi.....	BB	(NA)
Illinois.....	5.7	3.6	West South Central Division.....	18.2	(NA)
Michigan.....	3.5	1.8	Louisiana.....	2.5	(NA)
Wisconsin.....	4.5	3.7	Texas.....	15.0	(NA)
West North Central Division.....	32.1	25.5	West Region.....	34.6	(NA)
Minnesota.....	5.9	4.1	Mountain Division.....	CC	(NA)
Iowa.....	4.0	3.4	Arizona.....	CC	(NA)
Missouri.....	3.6	3.4	Pacific Division.....	FF	(NA)
North Dakota.....	2.4	AA	Oregon.....	AA	(NA)
Nebraska.....	6.3	6.2	California.....	26.0	(NA)
Kansas.....	9.3	CC			
South Region.....	83.9	45.5	METAL FLOORING AND SIDING (34445) ¹		
South Atlantic Division.....	50.0	27.4	United States.....	301.7	(NA)
Maryland.....	EE	EE	Northeast Region.....	65.7	(NA)
West Virginia.....	CC	BB	New England Division.....	3.3	(NA)
North Carolina.....	6.5	4.7	Connecticut.....	BB	(NA)
South Carolina.....	AA	(NA)	Middle Atlantic Division.....	62.4	(NA)
Georgia.....	CC	AA	New York.....	AA	(NA)
Florida.....	14.4	5.0	New Jersey.....	EE	(NA)
East South Central Division.....	19.9	9.9	Pennsylvania.....	FF	(NA)
Kentucky.....	EE	BB	North Central Region.....	167.3	(NA)
Tennessee.....	BB	BB	East North Central Division.....	157.5	(NA)
Alabama.....	BB	BB	Ohio.....	73.7	(NA)
Mississippi.....	1.7	(NA)	Indiana.....	14.3	(NA)
West South Central Division.....	13.9	8.1	Illinois.....	12.4	(NA)
Louisiana.....	CC	BB	Michigan.....	36.0	(NA)
Oklahoma.....	3.4	BB	Wisconsin.....	21.1	(NA)
Texas.....	3.6	2.7	West North Central Division.....	9.8	(NA)
West Region.....	45.9	43.1	Missouri.....	2.7	(NA)
Mountain Division.....	12.3	8.8	Nebraska.....	1.5	(NA)
Montana.....	BB	AA	Kansas.....	BB	(NA)
Wyoming.....	AA	(NA)	South Region.....	52.6	(NA)
Colorado.....	AA	2.9	South Atlantic Division.....	31.5	(NA)
Arizona.....	AA	AA	Maryland.....	6.8	(NA)
Utah.....	2.3	AA	North Carolina.....	EE	(NA)
Pacific Division.....	35.2	34.2	Georgia.....	CC	(NA)
Washington.....	8.8	3.7	East South Central Division.....	BB	(NA)
Oregon.....	CC	8.5	Mississippi.....	BB	(NA)
California.....	20.6	22.0	West South Central Division.....	EE	(NA)
			Texas.....	18.0	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
METAL FLOORING AND SIDING (34445)--Continued			PREFABRICATED METAL INDUSTRIAL AND COMMERCIAL BUILDINGS (34481)--Continued		
West Region.....	16.1	(NA)	North Central Region.....	114.1	(NA)
Pacific Division.....	EE	(NA)	East North Central Division.....	106.1	(NA)
Oregon.....	AA	(NA)	Ohio.....	FF	(NA)
California.....	EE	(NA)	Indiana.....	EE	(NA)
			Illinois.....	FF	(NA)
			Wisconsin.....	CC	(NA)
			West North Central Division.....	8.0	(NA)
			Missouri.....	CC	(NA)
			Kansas.....	BB	(NA)
			South Region.....	105.1	(NA)
			South Atlantic Division.....	38.4	(NA)
			West Virginia.....	AA	(NA)
			Georgia.....	34.6	(NA)
			Florida.....	AA	(NA)
			East South Central Division.....	FF	(NA)
			Alabama.....	EE	(NA)
			Mississippi.....	EE	(NA)
			West South Central Division.....	FF	(NA)
			Arkansas.....	AA	(NA)
			Louisiana.....	BB	(NA)
			Oklahoma.....	EE	(NA)
			Texas.....	24.7	(NA)
			West Region.....	31.2	(NA)
			Pacific Division.....	FF	(NA)
			Oregon.....	BB	(NA)
			California.....	27.9	(NA)
			OTHER PREFABRICATED PORTABLE METAL BUILDINGS AND PARTS (34482) ¹		
			United States.....	311.4	(NA)
			Northeast Region.....	38.5	(NA)
			New England Division.....	AA	(NA)
			New Hampshire.....	AA	(NA)
			Middle Atlantic Division.....	FF	(NA)
			New York.....	AA	(NA)
			New Jersey.....	FF	(NA)
			Pennsylvania.....	10.4	(NA)
			North Central Region.....	141.1	(NA)
			East North Central Division.....	125.7	(NA)
			Ohio.....	FF	(NA)
			Indiana.....	FF	(NA)
			Illinois.....	FF	(NA)
			Michigan.....	BB	(NA)
			Wisconsin.....	5.7	(NA)
			West North Central Division.....	EE	(NA)
			Missouri.....	CC	(NA)
			Nebraska.....	CC	(NA)
			Kansas.....	1.3	(NA)
			South Region.....	106.9	(NA)
			South Atlantic Division.....	51.3	(NA)
			Maryland.....	FF	(NA)
			West Virginia.....	CC	(NA)
			North Carolina.....	CC	(NA)
			Georgia.....	EE	(NA)
			Florida.....	8.9	(NA)
			East South Central Division.....	EE	(NA)
			Kentucky.....	6.6	(NA)
			Tennessee.....	CC	(NA)
			Alabama.....	CC	(NA)
			West South Central Division.....	FF	(NA)
			Louisiana.....	CC	(NA)
			Oklahoma.....	BB	(NA)
			Texas.....	29.2	(NA)
			West Region.....	24.9	(NA)
			Pacific Division.....	FF	(NA)
			California.....	24.5	(NA)
PREFABRICATED METAL INDUSTRIAL AND COMMERCIAL BUILDINGS (34481) ¹					
United States.....	258.9	(NA)			
			Northeast Region.....	8.4	(NA)
			New England Division.....	BB	(NA)
			Massachusetts.....	BB	(NA)
			Middle Atlantic Division.....	BB	(NA)
			Pennsylvania.....	3.6	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
FABRICATED CONCRETE REINFORCING BAR AND BAR JOINTS (34494) ¹			FABRICATED CONCRETE REINFORCING BAR AND BAR JOINTS (34494)—Continued		
United States.....	583.3	(NA)	West Region--Continued		
Northeast Region.....	94.4	(NA)	Pacific Division--Continued		
New England Division.....	16.5	(NA)	California.....	61.5	(NA)
Maine.....	BB	(NA)			
Massachusetts.....	CC	(NA)	OTHER MISCELLANEOUS METAL BUILDING MATERIALS AND CURTAIN WALL (34495) ¹		
Rhode Island.....	BB	(NA)	United States.....	273.6	(NA)
Connecticut.....	BB	(NA)	Northeast Region.....	41.4	(NA)
Middle Atlantic Division.....	77.9	(NA)	New England Division.....	6.3	(NA)
New York.....	22.6	(NA)	New Hampshire.....	BB	(NA)
New Jersey.....	16.3	(NA)	Rhode Island.....	AA	(NA)
Pennsylvania.....	39.0	(NA)	Connecticut.....	AA	(NA)
North Central Region.....	128.1	(NA)	Middle Atlantic Division.....	35.1	(NA)
East North Central Division.....	81.2	(NA)	New York.....	CC	(NA)
Ohio.....	14.6	(NA)	New Jersey.....	CC	(NA)
Indiana.....	4.6	(NA)	Pennsylvania.....	24.5	(NA)
Illinois.....	54.6	(NA)	North Central Region.....	125.6	(NA)
Michigan.....	CC	(NA)	East North Central Division.....	99.9	(NA)
Wisconsin.....	AA	(NA)	Ohio.....	41.7	(NA)
West North Central Division.....	47.0	(NA)	Indiana.....	EE	(NA)
Minnesota.....	EE	(NA)	Illinois.....	31.6	(NA)
Iowa.....	1.8	(NA)	Michigan.....	7.9	(NA)
Missouri.....	EE	(NA)	Wisconsin.....	CC	(NA)
Nebraska.....	EE	(NA)	West North Central Division.....	25.7	(NA)
Kansas.....	BB	(NA)	Minnesota.....	CC	(NA)
South Region.....	275.9	(NA)	Iowa.....	CC	(NA)
South Atlantic Division.....	142.8	(NA)	Missouri.....	EE	(NA)
Maryland.....	12.3	(NA)	Kansas.....	AA	(NA)
Virginia.....	29.0	(NA)	South Region.....	53.0	(NA)
West Virginia.....	BB	(NA)	South Atlantic Division.....	34.9	(NA)
North Carolina.....	12.7	(NA)	Maryland.....	BB	(NA)
South Carolina.....	30.8	(NA)	Virginia.....	BB	(NA)
Georgia.....	CC	(NA)	West Virginia.....	8.7	(NA)
Florida.....	46.0	(NA)	South Carolina.....	BB	(NA)
East South Central Division.....	51.4	(NA)	Georgia.....	9.5	(NA)
Tennessee.....	6.5	(NA)	Florida.....	8.6	(NA)
Alabama.....	41.4	(NA)	East South Central Division.....	4.5	(NA)
Mississippi.....	BB	(NA)	Tennessee.....	BB	(NA)
West South Central Division.....	81.7	(NA)	West South Central Division.....	13.6	(NA)
Arkansas.....	2.0	(NA)	Arkansas.....	BB	(NA)
Louisiana.....	3.4	(NA)	Texas.....	9.2	(NA)
Oklahoma.....	5.6	(NA)	West Region.....	49.7	(NA)
Texas.....	70.6	(NA)	Mountain Division.....	BB	(NA)
West Region.....	84.8	(NA)	Idaho.....	BB	(NA)
Mountain Division.....	11.2	(NA)	Arizona.....	AA	(NA)
Colorado.....	BB	(NA)	Pacific Division.....	FF	(NA)
Arizona.....	BB	(NA)	Washington.....	BB	(NA)
Utah.....	BB	(NA)	Oregon.....	BB	(NA)
Pacific Division.....	73.6	(NA)	California.....	36.3	(NA)
Washington.....	CC	(NA)			
Oregon.....	BB	(NA)			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

¹Separate 1967 product class data are unavailable (see footnote 6, table 6A).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3441	Fabricated structural metal:								
	Value.....mil. dol..	3,305.9	2,902.5	2,699.9	2,650.0	2,582.4	2,561.5	1,604.0	1,602.1
34411	Fabricated structural metal for buildings:								
	Quantity ².....1,000 s. tons..	4,782.4	4,615.7	4,554.5	4,476.3	4,465.2	4,240.4	3,126.9	3,135.0
	Value.....mil. dol..	1,935.0	1,867.2	1,771.5	1,602.5	1,528.0	1,430.3	984.0	930.4
34412	Fabricated structural metal for bridges:								
	Quantity ².....1,000 s. tons..	782.7	735.7	695.2	763.4	787.0	860.0	728.4	843.5
	Value.....mil. dol..	391.2	356.1	301.1	298.6	289.0	312.2	224.9	279.6
34413	Other fabricated structural metal:								
	Quantity ².....1,000 s. tons..	1,171.1	1,152.1	960.2	1,282.2	1,323.0	1,256.6	856.8	666.1
	Value.....mil. dol..	598.8	508.0	420.6	506.7	521.3	550.6	287.2	262.0
34410	Fabricated structural metal, n.s.k., value.....do....	380.9	171.2	(206.7)	242.2	244.1	268.4	107.8	130.1
3442	Metal doors, sash, and trim, value.....do....	1,902.9	1,633.3	1,443.7	1,436.8	1,365.1	1,301.5	1,106.7	951.7
34421	Metal doors and frames (except storm doors).....do....	686.7	513.8	453.6	453.2	410.2	345.7	289.6	192.4
34422	Metal window sash and frames (except storm sash).....do....	511.6	452.8	381.1	357.4	338.5	257.5	308.8	285.3
34423	Metal molding and trim and store fronts.....do....	148.5	179.1	(168.2)	147.3	132.2	145.0	116.8	97.3
34424	Metal combination screen and storm sash and doors.....do....	228.1	237.1	195.6	235.6	235.7	198.2	221.4	231.5
34425	Metal window and door screens (except combination) and weather strippings.....do....	95.5	70.4	56.3	70.1	67.1	61.5	56.7	64.4
34420	Metal doors, sash, and trim, n.s.k.....do....	232.5	180.1	(188.9)	173.2	181.4	293.6	113.5	80.6
3443	Fabricated platework, boiler shops, value.....do....	3,265.7	3,325.0	3,121.2	2,865.9	2,690.7	2,589.4	1,580.8	1,614.0
34431	Heat exchangers and steam condensers.....do....	447.1	478.7	424.0	397.3	379.1	343.5	160.5	187.2
34432	Fabricated steel plate, including stacks and weldments.....do....	617.3	558.0	535.5	561.1	539.6	517.9	374.2	(NA)
34433	Steel power boilers, parts, and attachments, over 15 PSI.....do....	728.2	1,028.1	916.7	633.2	558.7	521.7	340.7	409.5
34434	Gas cylinders.....do....	93.5	63.6	56.4	61.3	72.8	72.2	46.3	(NA)
34435	Metal tanks, factory complete, standard pressure.....do....	174.7	178.4	178.4	183.7	145.0	120.2	104.4	269.0
34437	Metal tanks, factory complete, standard nonpressure.....do....	255.1	192.1	183.7	215.9	210.0	177.3	145.6	
34438	Metal tanks, vessels, custom fabricated factory.....do....	382.1	414.5	455.5	443.6	437.0	464.8	197.1	
34439	Metal tanks, vessels, custom fabricated field erected.....do....	369.3	352.4	284.3	252.1	207.3	176.1	123.3	
34430	Fabricated platework, boilers, n.s.k.....do....	198.4	59.2	(86.7)	117.7	141.2	195.7	88.6	70.1
3444	Sheet metalwork, value.....do....	2,650.7	1,945.6	1,930.2	2,004.5	1,825.3	1,687.1	1,324.7	1,008.5
34442	Culverts, flumes, irrigation pipe.....do....	242.0	189.5	183.3	189.6	184.8	169.9	137.5	126.9
34444	Metal roofing and roof drainage equipment ³.....do....	422.4	532.4	541.5	537.1	490.5	408.5	306.1	185.8
34445	Metal flooring and siding ³.....do....	301.7							
34446	Other sheet metalwork ³.....do....	1,187.9	1,039.7	984.2	990.9	846.4	722.9	731.8	485.9
34440	Sheet metalwork, n.s.k.....do....	496.7	184.0	(221.2)	286.9	303.6	385.7	149.2	209.9
34460	Architectural and ornamental metalwork, value.....do....	589.4	494.4	495.6	487.9	468.3	504.9	306.2	332.9
3448	Prefabricated metal buildings, value.....do....	578.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
34481	Prefabricated metal industrial and commercial buildings ³.....do....	258.9	508.3	477.1	513.9	428.9	378.0	224.5	195.1
34482	Other prefabricated portable metal buildings and parts ³.....do....	311.4							
34480	Prefabricated metal buildings, n.s.k.....do....	8.5	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(NA)
3449	Miscellaneous metalwork, value.....do....	994.6	1,082.4	960.1	836.5	767.5	738.5	568.8	407.5
34494	Fabricated concrete reinforcing bar and bar joists.....do....	583.3	987.6	892.7	752.2	680.9	615.9	506.5	407.5
34495	Other miscellaneous metal building materials and curtain wall ³.....do....	273.6							
34490	Miscellaneous metalwork, n.s.k.....do....	137.7	494.8	⁴ (67.4)	484.3	486.6	4122.6	462.3	(NA)

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²These figures include an estimate of less than 15 percent for those products whose quantities are unavailable.

³The relationship between product classes on the new SIC basis (1972) and the old SIC basis (1971 and prior years) are as follows:

New SIC	Old SIC	New SIC	Old SIC
34444 } 34445 }	34441	34481 } 34482 }	34492
		34494 } 34495 }	34493
3446	34443		

⁴N.s.k. product class 34480 combines with n.s.k. product class 34490.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 3441.--FABRICATED STRUCTURAL METAL PRODUCTS						
	Materials, containers, parts, and supplies, total.....		(X)	1,762.1	(X)	1,330.8
	Mill shapes and forms (except castings):					
	Carbon steel:					
331009	Concrete reinforcing bars.....	1,000 s. tons.	374.2	50.9	353.2	43.6
331010	Bars and shapes (except concrete reinforcing bars).....	..do.....	423.7	79.0	376.4	59.9
331012	Sheet and strip.....	..do.....	873.6	166.4	377.3	64.6
331013	Plates.....	..do.....	1,203.8	243.0	1,047.2	162.2
331015	Structural shapes.....	..do.....	2,874.0	579.7	2,959.6	475.5
331017	Wire and wire products.....	..do.....	105.7	22.9	50.5	9.6
331019	All other carbon steel mill shapes and forms.....	..do.....	195.4	41.3	164.7	130.3
	Alloy steel (except stainless):					
331021	Bar and bar shapes.....	..do.....	34.6	7.3	23.9	5.0
331029	All other alloy steel mill shapes and forms.....	..do.....	49.5	10.0	10.1	3.0
	Stainless steel:					
331033	Sheet and strip.....	..do.....	5.4	7.9	4.9	5.7
331050	All other.....	..do.....	1.6	2.6		
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.4	.4	(NA)	1.3
335143	Plate, sheet, and strip, (including military cups and discs).....	..do.....	.5	.2		
335152	Pipe and tube.....	..do.....	4.4	.8	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil ².....	..do.....	67.9	26.9	22.3	11.6
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc. ²	..do.....	16.6	8.0	28.0	13.9
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	3.8	1.6		
	Primary metals (ingot, pig, etc.):					
333401	Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, billet, etc).....	1,000 s. tons.	1.3	.7	(D)	(D)
333348	Zinc and zinc-base alloy refinery shapes.....	..do.....	23.1	6.1	(NA)	.9
	Scrap (excluding home scrap):					
999811	Iron and steel.....	..do.....	157.3	6.4	(NA)	1.2
999808	Aluminum and aluminum-base alloy.....	..do.....	(Z)	(Z)	(NA)	.1
	Castings (rough and semifinished): ²					
332011	Iron (gray and malleable).....	..do.....	2.6	1.2	4.4	1.7
332045	Steel.....	..do.....	12.6	4.5	64.9	18.1
336100	Aluminum and aluminum-base alloy.....	..do.....	1.2	.4	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	203.8	(X)	196.4
976000	Materials, etc., n.s.k. ⁴		(X)	290.1	(X)	226.2
INDUSTRY 3442.--METAL DOORS, SASH, AND TRIM						
	Materials, containers, parts, and supplies, total.....		(X)	961.3	(X)	704.2
	Mill shapes and forms (except castings):					
	Carbon steel:					
331009	Concrete reinforcing bars.....	1,000 s. tons.	(⁵)	(⁵)	9.1	1.8
331010	Bars and bar shapes (except concrete reinforcing bars).....	..do.....	8.5	1.8		
331012	Sheet and strip.....	..do.....	350.5	78.3	243.1	40.4
331013	Plates.....	..do.....	2.9	.7	6.7	1.1
331015	Structural shapes.....	..do.....	4.4	1.0	12.9	2.3
331017	Wire and wire products.....	..do.....	5.0	2.0	7.0	1.7
331019	All other carbon steel mill shapes and forms.....	..do.....	511.9	52.8	17.2	3.0
	Alloy steel (except stainless):					
331021	Bar and bar shapes.....	..do.....	4.8	1.9	22.0	14.1
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	8.7	9.2	1.3	.8
331050	All other.....	..do.....	.3	.4		
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	1.8	1.3	.5	.3
335152	Pipe and tube.....	..do.....			(D)	(D)
335143	Plate, sheet, and strip, including military cups and discs...	..do.....	2.1	1.7	1.3	.8
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil ².....	..do.....	140.0	41.9	164.0	62.8
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc. ²	..do.....	407.6	172.1	289.1	116.0
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	71.0	30.7	14.4	7.1

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3442.--METAL DOORS, SASH, AND TRIM--Continued					
	Materials, containers, parts, and supplies--Continued					
	Primary metals (ingot, pig, etc.):					
333401	Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, billet, etc.).....	1,000 s. tons.	132.8	63.7	108.4	55.7
333348	Zinc and zinc-base alloy refinery shapes.....	..do.....	.3	.4	.1	.1
	Scrap (excluding home scrap):					
999811	Iron and steel.....	..do.....	(D)	(D)	(D)	(D)
999808	Aluminum and aluminum-base alloy.....	..do.....	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): ²					
332011	Iron (gray and malleable).....	..do.....	1.7	.9	2.6	1.4
332045	Steel.....	..do.....	.2	.1	34.7	5.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	.8	23.8	10.7
321101	Flat glass (plate, float, and sheet).....	.....	(X)	104.6	(X)	40.7
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	257.4	(X)	³ 124.0
976000	Materials, etc., n.s.k. ⁴.....	.....	(X)	185.9	(X)	214.6
	INDUSTRY 3443.--FABRICATED PLATEWORK (BOILER SHOPS)					
	Materials, containers, parts, and supplies, total.....	.....	(X)	1,435.5	(X)	1,163.7
	Mill shapes and forms (except castings):					
	Carbon steel:					
331009	Concrete reinforcing bars.....	1,000 s. tons.	4.7	.8	19.7	3.4
331010	Bars and bar shapes (except concrete reinforcing bars).....	..do.....	75.7	15.6	89.6	15.1
331012	Sheet and strip.....	..do.....	527.3	107.7	449.7	69.6
331013	Plates.....	..do.....	2,075.9	392.6	1,652.8	248.7
331015	Structural shapes.....	..do.....	257.7	52.7	176.7	28.9
331017	Wire and wire products.....	..do.....	17.9	4.5	9.7	2.9
331019	All other carbon steel mill shapes and forms.....	..do.....	289.1	93.4	⁶ 292.5	⁶ 85.0
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	10.8	4.2	26.8	10.0
331029	All other alloy steel mill shapes and forms.....	..do.....	110.1	72.9	127.1	59.0
	Stainless steel:					
331033	Sheet and strip.....	..do.....	22.2	28.6	38.9	46.6
331050	All other.....	..do.....	38.2	54.8		
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	1.0	1.0	2.9	3.3
335143	Plate, sheet, and strip, including military cups and discs...	..do.....	5.4	5.6	6.9	5.6
335152	Pipe and tube.....	..do.....	35.4	20.4	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil ².....	..do.....	24.3	13.8	26.1	12.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc. ²	..do.....	3.8	2.7	4.2	2.3
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	1.0	.7	(NA)	.5
	Scrap (excluding home scrap):					
999811	Iron and steel.....	1,000 s. tons.	32.9	2.4	92.8	3.4
	Castings (rough and semifinished): ²					
332011	Iron (gray and malleable).....	..do.....	19.2	11.9	(D)	(D)
332045	Steel.....	..do.....	12.8	9.4	(NA)	23.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	.3	.4	3.5	2.1
321101	Flat glass (plate, float, and sheet).....	.....	(X)	4.0	(X)	1.6
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	373.7	(X)	³ 303.9
976000	Materials, etc., n.s.k. ⁴.....	.....	(X)	161.7	(X)	236.0
	INDUSTRY 3444.--SHEET METALWORK					
	Materials, containers, parts, and supplies, total.....	.....	(X)	³ 1,252.4	(X)	794.9
	Mill shapes and forms (except casting):					
	Carbon steel:					
331009	Concrete reinforcing bars.....	1,000 s. tons.	1.8	.3	78.3	11.4
331010	Bars and bar shapes (except concrete reinforcing bars).....	..do.....	43.4	8.4		
331012	Sheet and strip.....	..do.....	2,061.0	405.0	1,398.8	245.1
331013	Plates.....	..do.....	72.9	14.2	53.0	3.4
331015	Structural shapes.....	..do.....	63.6	12.6	40.4	6.5
331017	Wire and wire products.....	..do.....	13.3	3.4	⁶ 54.2	⁶ 10.6
331019	All other carbon steel mill shapes and forms.....	..do.....	83.3	19.4		

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967		
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)	
INDUSTRY 3444.--SHEET METALWORK--Continued							
Materials, containers, parts, and supplies--Continued							
Mill shapes and forms (except casting):--Continued							
Alloy steel (except stainless):							
331021	Bars and bar shapes.....	...do.....	(NA)	.8	28.6	20.7	
331029	All other alloy steel mill shapes and forms.....	...do.....	11.8	3.5			
Stainless steel:							
331033	Sheet and strip.....	...do.....	29.3	40.7	2.1	2.6	
331050	All other.....	...do.....	2.1	2.6			
Copper and copper-base alloy:							
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	3.5	2.0	(NA)	1.0	
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	7.6	6.3	(NA)	4.0	
335152	Pipe and tube.....	...do.....	(NA)	2.6	(D)	(D)	
Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil ².....	...do.....	500.1	177.6	199.8	74.3
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc. ²	...do.....	56.7	22.7			
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	7.5	5.1			
Primary metals:							
333401	Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, billets, etc.).....	1,000 s. tons.	(D)	(D)	(D)	(D)	
333348	Zinc and zinc-base alloy refinery shapes.....	...do.....	7.6	2.7	(D)	(D)	
Scrap (excluding home scrap):							
999811	Iron and steel.....	...do.....	(NA)	.8	(D)	(D)	
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)	
Castings (rough and semifinished): ²							
332011	Iron (gray and malleable).....	...do.....	(NA)	.2	(NA)	.8	
332045	Steel.....	...do.....	(NA)	2.3	(NA)	11.5	
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(NA)	4.1	
321101	Flat glass (plate, float and sheet).....	Million sq. ft.	(NA)	1.0	(NA)	.7	
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	228.4	(X)	³ 163.5
976000	Materials, etc., n.s.k. ⁴.....	.....	(X)	261.9	(X)	217.6
INDUSTRY 3446.--ARCHITECTURAL METALWORK							
Materials, containers, parts, and supplies, total.....							
			(X)	² 238.1	(X)	222.1	
Mill shapes and forms (except castings):							
Carbon steel:							
331009	Concrete reinforcing bars.....	1,000 s. tons.	(⁵)	(⁵)	(⁵)	(⁵)	
331010	Bars and bar shapes (except concrete reinforcing bars).....	...do.....	50.8	11.0	66.8	11.9	
331012	Sheet and strip.....	...do.....	179.8	34.5	512.9	68.0	
331013	Plates.....	...do.....	27.6	5.4	(⁵)	(⁵)	
331015	Structural shapes.....	...do.....	63.9	13.5	63.1	10.6	
331017	Wire and wire products.....	...do.....	8.3	1.6	(⁵)	(⁵)	
331019	All other carbon steel mill shapes and forms.....	...do.....	⁵ 71.2	⁵ 15.1	⁵ 96.5	⁵ 15.8	
Alloy steel (except stainless):							
331021	Bars and bar shapes.....	...do.....	(NA)	.4	14.9	3.4	
331029	All other alloy steel mill shapes and forms.....	...do.....	14.9	3.4			
Stainless steel:							
331033	Sheet and strip.....	...do.....	.7	1.0	.3	.6	
331050	All other.....	...do.....	.3	.6			
Copper and copper-base alloy:							
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(NA)	.6	(NA)	4.5	
335152	Pipe and tube.....	...do.....					
335143	Plate, sheet, and strip, including military cups and discs...	...do.....					
Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil ².....	...do.....	(⁷)	(⁷)	(⁷)	(⁷)
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc. ²..	...do.....	30.6	15.1	37.0	16.2
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	⁷ 49.3	⁷ 22.5	⁷ 19.7	⁷ 9.7	
Primary metals:							
333401	Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, billet, etc.).....	1,000 s. tons.	(D)	(D)	(D)	(D)	
333348	Zinc and zinc-base alloy refinery shapes.....	...do.....	(D)	(D)	(D)	(D)	
Scrap (excluding home scrap):							
999811	Iron and steel.....	...do.....	(D)	(D)	(D)	(D)	
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)	

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3446.--ARCHITECTURAL METALWORK--Continued					
	Materials, containers, parts, and supplies--Continued					
	Castings (rough and semifinished): ²					
332011	Iron (gray and malleable).....	...do.....	2.6	1.4	(D)	(D)
332045	Steel.....	...do.....	(NA)	.7	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(NA)	1.0	(D)	(D)
321101	Flat glass (plate, float, and sheet).....	Million sq. ft..	(X)	.2	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	35.6	(X)	³ 39.3
976000	Materials, etc., n.s.k. ⁴.....	.....	(X)	72.7	(X)	42.8
	INDUSTRY 3448.--PREFABRICATED PORTABLE METAL BUILDINGS AND PARTS					
	Materials, containers, parts, and supplies, total.....	.....	(X)	³ 299.6	(NA)	(NA)
	Mill shapes and forms, except castings:					
	Carbon steel:					
331009	Concrete reinforcing bars.....	1,000 s. tons..	(⁵)	(⁵)	(NA)	(NA)
331010	Bars and bar shapes (except concrete reinforcing bars).....	...do.....	52.0	10.8	(NA)	(NA)
331012	Sheet and strip.....	...do.....	566.2	121.9	(NA)	(NA)
331013	Plates.....	...do.....	109.9	19.8	(NA)	(NA)
331015	Structural shapes.....	...do.....	61.1	12.1	(NA)	(NA)
331017	Wire and wire products.....	...do.....	7.6	3.0	(NA)	(NA)
331019	All other carbon steel mill shapes and forms.....	...do.....	⁵ 58.0	⁵ 15.3	(NA)	(NA)
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....	38.1	8.4	(NA)	(NA)
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....	-	-	(NA)	(NA)
331050	All other.....	...do.....				
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	7.9	3.5	(NA)	(NA)
335152	Pipe and tube.....	...do.....			(NA)	(NA)
335143	Plate, sheet, and strip, including military cups and discs...	...do.....			(NA)	(NA)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	6.7	3.7	(NA)	(NA)
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	...do.....	4.1	1.8	(NA)	(NA)
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	.4	.2		
	Primary metals:					
333401	Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, bullets, etc.).....	1,000 s. tons..	(D)	(D)	(NA)	(NA)
333348	Zinc and zinc-base alloy refinery shapes.....	...do.....	-	-	(NA)	(NA)
	Scrap (excluding home scrap):					
999811	Iron and steel.....	...do.....	(D)	(D)	(NA)	(NA)
	Castings (rough and semifinished): ²					
332011	Iron (gray and malleable).....	...do.....	.2	.2	(NA)	(NA)
332045	Steel.....	...do.....	-	-	(NA)	(NA)
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(D)	(D)	(NA)	(NA)
321101	Flat glass (plate, float and sheet).....	.....	(X)	.7	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	69.1	(NA)	(NA)
976000	Materials, etc., n.s.k. ⁴.....	.....	(X)	28.3	(NA)	(NA)
	INDUSTRY 3449.--MISCELLANEOUS METALWORK ¹					
	Materials, containers, parts, and supplies, total.....	.....	(X)	³ 506.3	(NA)	(NA)
	Mill shapes and forms, except castings:					
	Carbon steel:					
331009	Concrete reinforcing bars.....	1,000 s. tons..	1,404.6	193.0	(NA)	(NA)
331010	Bars and bar shapes (except concrete reinforcing bars).....	...do.....	285.0	46.1	(NA)	(NA)
331012	Sheet and strip.....	...do.....	189.1	41.7	(NA)	(NA)
331013	Plates.....	...do.....	16.0	3.1	(NA)	(NA)
331015	Structural shapes.....	...do.....	94.6	16.0	(NA)	(NA)
331017	Wire and wire products.....	...do.....	47.8	11.5	(NA)	(NA)
331019	All other carbon steel mill shapes and forms.....	...do.....	79.8	12.2	(NA)	(NA)
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....	44.2	9.8	(NA)	(NA)
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....	-	-	(NA)	(NA)
331050	All other.....	...do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3449.--MISCELLANEOUS METALWORK ¹ --Continued					
	Materials, containers, parts, and supplies--Continued					
	Mill shapes and forms, except castings:					
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(D)	(D)	(NA)	(NA)
335152	Pipe and tube.....	...do.....	(Z)	(Z)	(NA)	(NA)
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	(D)	(D)	(NA)	(NA)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	94.4	38.2	(NA)	(NA)
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	11.6	5.6	(NA)	(NA)
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	.1	.1	(NA)	(NA)
	Primary metals:					
333401	Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, billet, etc.).....	1,000 s. tons.	(D)	(D)	(NA)	(NA)
333348	Zinc and zinc-base alloy refinery shapes.....	...do.....	(D)	(D)	(NA)	(NA)
	Scrap (excluding home scrap):					
999811	Iron and steel.....	...do.....	(D)	(D)	(NA)	(NA)
	Castings (rough and semifinished): ⁶					
332011	Iron (gray and malleable).....	...do.....	.1	.1	(NA)	(NA)
332045	Steel.....	...do.....	(D)	(D)	(NA)	(NA)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(NA)	(NA)
321101	Flat glass (plate, float and sheet).....	.....	(X)	1.4	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	40.8	(NA)	(NA)
976000	Materials, etc., n.s.k. ⁴.....	.....	(X)	64.7	(NA)	(NA)

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown.

¹These figures are understated by \$5 to \$10 million because of apparent undercoverage of carbon steel pipe and tube.²Exclude quantities produced and consumed in the same establishment.³Includes cost for materials indicated by the symbol (D).⁴This item represents the total cost of materials for establishments that did not report detailed materials data.⁵Included with material code 331019, "All other carbon steel mill shapes and forms."⁶These items are understated by \$5 million or less because of apparent undercoverage of carbon steel pipe and tube.⁷Data for aluminum and aluminum-base alloy sheet, plate, and foil are included with "All other aluminum mill shapes and forms."

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3441.--FABRICATED STRUCTURAL METAL					
	Purchased fuels and electric energy.....	.....	(X)	26.2	(X)	23.2
	Purchased fuels, total.....	.....	(X)	9.7	(X)	11.0
121005	Coal.....	1,000 s. tons....	12.0	.1	18.7	.1
331212	Coke.....	...do.....	(S)	.1	4.5	.2
	Fuel oil, total.....	1,000 bbl (42 gal)	209.0	1.0	213.5	1.0
291141	Distillate.....	...do.....	185.2	.9	187.7	.9
291151	Residual.....	...do.....	23.8	.1	25.8	.1
131300	Natural gas.....	Billion ft ³	6.4	3.7	6.6	3.0
960011	Other fuels.....	.....	(X)	1.7	(X)	.9
975000	Fuels, n.s.k.....	.....	(X)	3.1	(X)	5.8
960012	Purchased electric energy.....	Million kWh.....	1,169.2	16.5	863.3	12.1
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	5.3	-	6.1	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3442.--METAL DOORS, SASH, AND TRIM						
	Purchased fuels and electric energy.....		(X)	14.0	(X)	11.7
	Purchased fuels, total.....		(X)	5.7	(X)	4.4
121005	Coal.....	1,000 s. tons....	2.1	(Z)	8.7	.1
331212	Coke.....	..do.....	-	-	.2	(Z)
	Fuel oil, total.....	1,000 bbl (42 gal)	107.3	.5	70.1	.3
291141	Distillate.....	..do.....	79.1	.3	61.3	.3
291151	Residual.....	..do.....	28.3	.1	8.5	(Z)
131300	Natural gas.....	Billion ft³.....	4.2	2.5	4.0	1.9
960011	Other fuels.....		(X)	.2	(X)	.2
975000	Fuels, n.s.k.....		(X)	2.4	(X)	1.9
960012	Purchased electric energy.....	Million kWh.....	637.8	8.3	483.9	7.3
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	1.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	3.2	-	2.9	-
INDUSTRY 3443.--FABRICATED PLATEWORK (BOILER SHOPS)						
	Purchased fuels and electric energy.....		(X)	30.8	(X)	25.8
	Purchased fuels, total.....		(X)	13.0	(X)	11.4
121005	Coal.....	1,000 s. tons....	11.4	.1	7.2	.1
331212	Coke.....	..do.....	(S)	.3	4.6	.2
	Fuel oil, total.....	1,000 bbl (42 gal)	408.8	1.9	526.1	1.5
291141	Distillate.....	..do.....	311.1	1.4	328.0	1.0
291151	Residual.....	..do.....	97.8	.4	198.1	.5
131300	Natural gas.....	Billion ft³.....	12.8	6.7	10.2	5.0
960011	Other fuels.....		(X)	1.3	(X)	.7
975000	Fuels, n.s.k.....		(X)	2.9	(X)	3.9
960012	Purchased electric energy.....	Million kWh.....	1,405.5	17.8	1,019.1	14.4
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	2.3	-
	Total energy used for heat and power.....	Bil. kWh equiv....	7.7	-	6.8	-
INDUSTRY 3444.--SHEET METALWORK						
	Purchased fuels and electric energy.....		(X)	15.8	(X)	12.6
	Purchased fuels, total.....		(X)	7.6	(X)	5.8
121005	Coal.....	1,000 s. tons....	.3	(Z)	62.9	.3
331212	Coke.....	..do.....	-	-	.7	(Z)
	Fuel oil, total.....	1,000 bbl (42 gal)	404.8	1.9	98.8	.5
291141	Distillate.....	..do.....	276.8	1.6	74.1	.4
291151	Residual.....	..do.....	128.0	.4	24.7	.1
131300	Natural gas.....	Billion ft³.....	7.6	3.9	3.8	2.4
960011	Other fuels.....		(X)	.2	(X)	.3
975000	Fuels, n.s.k.....		(X)	1.6	(X)	2.5
960012	Purchased electric energy.....	Million kWh.....	521.1	8.2	456.4	6.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	2.8	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.3	-	3.5	-
INDUSTRY 3448.--PREFABRICATED METAL BUILDING AND INDUSTRY 3449.--MISCELLANEOUS METALWORK						
	Purchased fuels and electric energy.....		(X)	12.3	(X)	(NA)
	Purchased fuels, total.....		(X)	4.5	(X)	(NA)
121005	Coal.....	1,000 s. tons....	12.7	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	75.2	.4	(NA)	(NA)
291141	Distillate.....	..do.....	71.7	.3	(NA)	(NA)
291151	Residual.....	..do.....	3.5	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	5.0	2.8	(NA)	(NA)
960011	Other fuels.....		(X)	.4	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.9	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	639.9	7.8	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.8	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

Screw Machine Products, Fasteners and Washers; Metal Forgings and Stampings; and Metal Services

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EXPLANATORY TEXT

SCREW MACHINE PRODUCTS, FASTENERS AND WASHERS; METAL FORGINGS AND STAMPINGS; AND METAL SERVICES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3451—Screw Machine Products
- 3452—Bolts, Nuts, Screws, Rivets, and Washers*
- 3462—Metal Forgings and Stampings*
- 3463—Nonferrous Forgings
- 3465—Automotive Stampings
- 3466—Crowns and Closures
- 3469—Metal Stampings, N.E.C.
- 3471—Electroplating, Plating, Polishing, Anodizing, and Coloring*
- 3479—Coating, Engraving, and Allied Services, N.E.C.*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3451.—SCREW MACHINE PRODUCTS

This industry comprises establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics, or other material. The products of this industry consist of a wide variety of unassembled parts and are usually manufactured on

*Note that the "short title" for this industry is used throughout the report.

a job or order basis. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, and other industrial fasteners on headers, threaders, and nut-forming machines are classified in industry 3452. For a detailed list of products of industry 3451, refer to table 6A, product codes 34511 12 to 34512 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Screw Machine Products Industry in 1972 totaled \$1,062 million. This included shipments of screw machine products (primary products) valued at \$972 million, shipments of other products (secondary products) valued at \$45 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$45 million.

Shipments of screw machine products (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 96 percent. Secondary products shipped by this industry in 1972 consisted mainly of bolts, nuts, rivets, and washers (\$28 million).

Shipments of screw machine products (primary products) from establishments classified in industry 3451 in 1972 represented 90 percent (coverage ratio) of these products valued at \$1,083 million shipped by all industries. In 1967, the coverage ratio was also 90 percent. Other industries shipping screw machine products consisted mainly of industry 3452, Bolts, Nuts, Rivets, and Washers, (\$47 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3451, these establishments accounted for 12 percent of value of shipments.

INDUSTRY 3452.—BOLTS, NUTS, RIVETS, AND WASHERS (Short Title)

This industry comprises establishments primarily engaged in manufacturing bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in SIC Major Group 33, and establishments primarily engaged in manufacturing screw machine products in industry 3451.

For a detailed list of products of industry 3452, refer to table 6A, product codes 34525 11 to 34528 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Bolts, Nuts, Rivets, and Washers Industry in 1972 totaled \$2,043 million. This included shipments of bolts, nuts, rivets, and washers (primary products) valued at \$1,803 million, shipments of other products (secondary products) valued at \$137 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$104 million.

Shipments of bolts, nuts, rivets, and washers (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent. Secondary products shipped by this industry in 1972 consisted mainly of screw machine products (\$47 million).

Shipments of bolts, nuts, rivets, and washers (primary products) from establishments classified in industry 3451 in 1972 represented 91 percent (coverage ratio) of these products valued at \$1,988 million shipped by all industries. In 1967, the coverage ratio was 90 percent. Other industries shipping bolts, nuts, rivets, and washers consisted mainly of industry 3312, Blast Furnaces and Steel Mills, (\$105 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3452, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3462.—IRON AND STEEL FORGINGS (Short Title)

This industry comprises establishments primarily engaged in manufacturing metal forgings or metal stampings. These establishments generally operate on a job or order basis, manufacturing metal stampings or forgings for sale to others or for interplant transfer. Establishments which produce metal stampings or forgings for incorporation in end products produced in the same establishment are classified on the basis of the end product. For a detailed list of products of industry 3462, refer to table 6A, product codes 34621 11 to 34629 43.

The 1972 definition of this industry is the same as that used in the 1967 classification system. 1972 SIC industry 3462 was classified in the old SIC system under industry 3391.

Value of shipments and other receipts of the Iron and Steel Forgings Industry in 1972 totaled \$1,416 million. This in-

cluded shipments of iron and steel forgings (primary products) valued at \$1,259 million, shipments of other products (secondary products) valued at \$116 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$41 million.

Shipments of iron and steel forgings (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of nonferrous forgings (\$36 million).

Shipments of iron and steel forgings (primary products) from establishments classified in industry 3462 in 1972 represented 68 percent (coverage ratio) of these products valued at \$1,839 million shipped by all industries. Other industries shipping iron and steel forgings consisted mainly of industry 3714, Motor Vehicle Parts and Accessories, (\$100 to \$200 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3462, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3463.—NONFERROUS FORGINGS

This industry comprises establishments primarily engaged in manufacturing nonferrous forgings, with or without the use of dies. For a detailed list of products of industry 3463, refer to table 6A, product codes 34631 33 to 34632 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. 1972 SIC industry 3463 was classified in the old SIC system under industry 3392.

Value of shipments and other receipts of the Nonferrous Forgings Industry in 1972 totaled \$222 million. This included shipments of nonferrous forgings (primary products) valued at \$176 million, shipments of other products (secondary products) valued at \$34 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$13 million.

Shipments of nonferrous forgings (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of iron and steel forgings (\$28 million).

Shipments of nonferrous forgings (primary products) from establishments classified in industry 3463 in 1972 represented 63 percent (coverage ratio) of these products valued at \$281 million shipped by all industries. Other industries shipping

nonferrous forgings consisted mainly of industry 3462, Iron and Steel Forgings, (\$37 million) and industry 3351, Copper Rolling and Drawing, (\$33 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3463, these establishments accounted for 2 percent of value of shipments.

INDUSTRY 3465.—AUTOMOTIVE STAMPINGS

This industry comprises establishments primarily engaged in manufacturing automotive stampings, such as body parts, hubs, and trim. For a detailed list of products of industry 3465, refer to table 6A, product code 34650 13.

The Automotive Stampings Industry is included in the census of manufactures for the first time in 1972. This industry and 1972 industries 3466 and 3469 comprise 1967 industry 3461, Metal Stampings.

Value of shipments and other receipts of the Automotive Stampings Industry in 1972 totaled \$5,286 million. This included shipments of automotive stampings (primary products) valued at \$4,754 million, shipments of other products (secondary products) valued at \$406 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$126 million.

Shipments of automotive stampings (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of special dies, tools, jigs, and fixtures (\$187 million).

Shipments of automotive stampings (primary products) from establishments classified in industry 3465 in 1972 represented 92 percent (coverage ratio) of these products valued at \$5,156 million shipped by all industries. Other industries shipping automotive stampings consisted mainly of industry 3711, Motor Vehicles and Car Bodies, (\$200 to \$500 million) and industry 3469, Metal Stampings, N.E.C., (\$65 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments, key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics estimated from industry averages. In those cases where two new industries or more were created from an old industry, all data based on administrative records have been assigned to only one of the new industries. Administrative-record data for industry 3465 have been included with data for industry 3469.

INDUSTRY 3466.—CROWNS AND CLOSURES

This industry comprises establishments primarily engaged in manufacturing metal crowns and closures. For a detailed list of products of industry 3466, refer to table 6A, product codes 34661 10 to 34662 00.

The Crowns and Closures Industry is included in the census of manufactures for the first time in 1972. This industry and 1972 industries 3465 and 3467 comprise 1967 industry 3461, Metal Stampings.

Value of shipments and other receipts of the Crowns and Closures Industry in 1972 totaled \$337 million. This included shipments of crowns and closures (primary products) valued at \$283 million, shipments of other product (secondary products) valued at \$38 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$15 million.

Shipments of crowns and closures (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of metal foil and leaf (\$10 million).

Shipments of crowns and closures (primary products) from establishments classified in industry 3466 in 1972 represented 83 percent (coverage ratio) of these products valued at \$346 million shipped by all industries. Other industries shipping crowns and closures consisted mainly of industry 3411, Metal Cans, (\$23 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments, key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics estimated from industry averages. In those cases where two new industries or more were created from an old industry, all data based on administrative records have been assigned to only one of the new industries. Administrative-record data for industry 3466 have been included with data for industry 3469.

INDUSTRY 3469.—METAL STAMPINGS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing metal stampings and spun products, not elsewhere classified, including porcelain enameled products such as household appliance housings and parts; utensils and consumer stamped and spun products such as cooking and kitchen utensils; and other nonautomotive job stampings. For a detailed list of products of industry 3469, refer to table 6A, product codes 34692 11 to 34699 98.

The Metal Stampings, N.E.C., Industry is included in the census of manufactures for the first time in 1972. This industry and 1972 industries 3465 and 3466 comprise 1967 industry 3461, Metal Stampings.

Value of shipments and other receipts of the Metal Stampings, N.E.C., Industry in 1972 totaled \$2,674 million. This included shipments of metal stampings, n.e.c., (primary products) valued at \$2,191 million, shipments of other products (secondary products) valued at \$353 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$130 million.

Shipments of metal stampings, n.e.c., (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of automotive stampings (\$65 million).

Shipments of metal stampings, n.e.c., (primary products) from establishments classified in industry 3469 in 1972 represented 85 percent (coverage ratio) of these products valued at \$2,585 million shipped by all industries. Other industries shipping metal stampings, n.e.c., consisted mainly of industry 3465, Automotive Stampings, (\$85 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3469, these establishments accounted for 8 percent of value of shipments.

INDUSTRY 3471.—PLATING AND POLISHING (Short Title)

This industry comprises establishments primarily engaged in all types of electroplating, plating, anodizing, coloring, and finishing of metals and formed products for the trade. Most of the work done in this industry is done on materials owned by others. For a detailed list of products of industry 3471, refer to table 6A, product code 34710 11.

The 1967 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Plating and Polishing Industry in 1972 totaled \$1,040 million. This included shipments of plating and polishing (primary products) valued at \$1,009 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$12 million.

Secondary products shipped by this industry in 1972 consisted mainly of metal coating and allied services (\$11 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3471, these establishments accounted for 21 percent of value of shipments.

INDUSTRY 3479.—METAL COATING AND ALLIED SERVICES (Short Title)

This industry comprises establishments primarily engaged in performing the following types of services on metals: (1) Enameling, lacquering, and varnishing metal products for the trade; (2) hot-dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; hot-dip coating such items with aluminum, lead, or zinc; retinning cans and utensils; (3) engraving, chasing, and etching jewelry, silverware, notarial and other seals, and other metal products for the trade and for job contracting for purposes other than printing; and (4) other metal services, not elsewhere classified. Establishments primarily engaged in electroplating, plating, polishing, anodizing, coloring, and finishing metals and formed products for the trade are classified in industry 3471; and those producing porcelain enameled products in industry 3469. For a detailed list of products of industry 3479, refer to table 6A, product codes 34790 13 to 34790 81.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Metal Coating and Allied Services Industry in 1972 totaled \$702 million. This included shipments of metal coating and allied services (primary products) valued at \$637 million, shipments of other products (secondary products) valued at \$53 million, and miscellaneous receipts (mainly resales of products bought and resold without further manufacture) of \$12 million.

Secondary products shipped by this industry in 1972 consisted mainly of fabricated metal products, n.e.c. (\$10 to \$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3479, these establishments accounted for 15 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expend- itures, new	Gross value of fixed assets	End-of- year inven- tories	Special- ization ratio	Cover- age ratio
	Total	With 20 employ- ees or more	Number	Payroll	Number	Man- hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3451.--SCREW MACHINE PRODUCTS															
1972 Census.....	1,803	611	40.4	356.4	33.1	68.1	257.2	647.3	423.3	1,061.7	33.2	(NA)	115.5	96	90
1971 ASM	(NA)	(NA)	39.1	318.3	31.6	64.4	222.1	565.7	389.9	957.0	18.7	457.0	110.7	(NA)	(NA)
1970 ASM	(NA)	(NA)	45.1	355.9	37.0	76.1	249.2	631.2	414.3	1,042.4	32.1	455.0	118.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	49.9	395.8	42.0	89.3	295.6	723.4	439.3	1,161.0	49.0	485.6	102.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	50.3	375.4	42.3	89.0	279.2	683.9	408.1	1,090.4	48.3	445.7	96.2	(NA)	(NA)
1967 Census.....	1,874	681	49.0	349.1	41.5	88.2	258.5	641.5	386.2	1,021.5	49.7	419.6	93.6	96	90
1966 ASM	(NA)	(NA)	46.1	309.0	39.2	85.1	234.9	555.4	391.9	949.0	38.6	(NA)	117.0	(NA)	(NA)
1965 ASM	(NA)	(NA)	40.1	251.4	33.4	73.0	189.9	424.5	308.1	734.1	23.8	(NA)	73.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	36.3	226.0	30.2	65.8	170.8	367.3	267.6	636.4	* 20.2	283.4	61.8	(NA)	(NA)
1963 Census.....	1,874	516	36.9	213.2	30.8	64.3	160.0	359.0	232.9	589.0	18.7	259.5	58.8	97	90
1962 ASM	(NA)	(NA)	36.5	192.1	30.0	58.9	140.2	312.4	210.6	518.3	* 12.6	240.9	51.1	(NA)	(NA)
1961 ASM	(NA)	(NA)	32.1	164.4	26.3	50.8	116.6	268.8	186.7	458.0	* 8.8	(NA)	50.7	(NA)	(NA)
1960 ASM	(NA)	(NA)	35.5	177.1	29.2	58.7	129.9	300.7	204.2	502.8	(S)	(NA)	55.6	(NA)	(NA)
1959 ASM	(NA)	(NA)	34.2	169.2	28.9	58.1	129.4	301.3	221.7	519.1	(S)	(NA)	54.6	(NA)	(NA)
1958 Census	1,792	419	31.8	154.9	25.9	51.9	114.0	250.0	175.1	425.1	11.2	(NA)	48.7	94	87
INDUSTRY 3452.--BOLTS, NUTS, RIVETS, AND WASHERS															
1972 Census.....	679	397	60.6	594.6	46.4	97.3	410.6	1,204.9	859.4	2,043.1	55.8	(NA)	409.5	93	91
1971 ASM	(NA)	(NA)	57.7	510.6	43.4	88.0	339.1	981.2	675.4	1,663.2	57.9	838.6	383.3	(NA)	(NA)
1970 ASM	(NA)	(NA)	62.7	533.7	47.1	95.9	354.2	990.5	676.9	1,658.1	59.8	794.5	386.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	68.4	572.8	52.1	111.0	399.3	1,118.7	740.4	1,847.6	79.9	773.4	374.5	(NA)	(NA)
1968 ASM	(NA)	(NA)	68.1	535.3	52.4	111.2	370.0	1,064.5	717.0	1,763.0	63.7	739.6	357.6	(NA)	(NA)
1967 Census.....	662	392	67.2	498.1	52.2	108.5	347.2	979.4	690.1	1,643.9	70.7	692.5	320.8	94	90
1966 ASM	(NA)	(NA)	62.5	463.5	47.6	104.9	319.7	963.2	724.4	1,661.8	70.6	(NA)	297.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	62.3	432.3	48.0	103.6	304.0	846.2	647.7	1,480.1	54.6	(NA)	264.9	(NA)	(NA)
1964 ASM	(NA)	(NA)	59.7	400.8	45.5	97.3	279.5	763.3	592.8	1,344.2	37.4	562.6	240.1	(NA)	(NA)
1963 Census.....	573	323	57.6	371.0	44.0	92.5	257.5	695.3	527.9	1,218.2	31.4	533.1	222.2	92	90
1962 ASM	(NA)	(NA)	57.4	360.6	43.5	91.7	241.1	649.1	514.7	1,158.0	31.0	513.7	219.7	(NA)	(NA)
1961 ASM	(NA)	(NA)	55.0	324.1	41.5	83.6	214.8	561.2	445.4	1,005.5	21.2	(NA)	214.8	(NA)	(NA)
1960 ASM	(NA)	(NA)	58.5	331.4	44.3	88.8	221.8	595.9	465.3	1,044.8	29.3	(NA)	218.0	(NA)	(NA)
1959 ASM	(NA)	(NA)	58.8	339.0	45.1	94.9	231.7	636.0	487.3	1,112.9	* 33.2	(NA)	204.9	(NA)	(NA)
1958 Census	525	283	53.3	286.0	40.2	80.6	191.9	504.7	370.6	880.3	43.7	(NA)	188.1	91	87
INDUSTRY 3462.--IRON AND STEEL FORGINGS															
1972 Census.....	280	180	34.3	387.2	27.8	55.2	299.5	661.8	761.8	1,416.1	28.1	(NA)	219.4	92	68
1971 ASM	(NA)	(NA)	33.1	335.1	26.6	49.9	254.0	548.8	613.2	1,162.2	24.6	500.9	189.7	(NA)	(NA)
1970 ASM	(NA)	(NA)	35.9	350.1	28.7	56.3	264.6	555.5	624.4	1,186.4	36.5	496.0	180.5	(NA)	(NA)
1969 ASM	(NA)	(NA)	40.4	378.6	32.8	67.3	290.4	658.7	740.9	1,395.2	37.9	498.7	215.5	(NA)	(NA)
1968 ASM	(NA)	(NA)	39.3	352.9	31.7	64.8	269.6	607.5	675.9	1,288.8	37.4	485.9	206.1	(NA)	(NA)
1967 Census.....	272	189	41.2	345.9	33.4	67.2	265.6	607.4	657.2	1,261.6	45.0	454.8	200.1	90	72
1966 ASM	(NA)	(NA)	41.3	346.3	33.4	70.6	269.4	594.9	687.0	1,273.1	34.6	(NA)	210.8	(NA)	(NA)
1965 ASM	(NA)	(NA)	39.1	307.3	31.8	66.1	242.1	512.5	605.3	1,105.8	22.7	(NA)	192.6	(NA)	(NA)
1964 ASM	(NA)	(NA)	36.6	276.3	29.5	60.2	214.4	440.5	531.9	961.2	* 34.1	347.8	165.8	(NA)	(NA)
1963 Census.....	272	189	36.3	259.8	29.2	58.3	198.3	395.3	470.9	868.9	17.5	325.4	125.0	89	69
1962 ASM	(NA)	(NA)	40.9	282.1	33.0	66.0	214.1	456.5	484.0	928.8	14.6	308.3	142.6	(NA)	(NA)
1961 ASM	(NA)	(NA)	39.5	257.9	31.3	60.7	189.5	380.3	414.7	789.1	17.5	(NA)	146.9	(NA)	(NA)
1960 ASM	(NA)	(NA)	41.0	261.7	32.8	64.2	197.3	393.7	470.4	854.8	15.0	(NA)	141.4	(NA)	(NA)
1959 ASM	(NA)	(NA)	40.8	260.4	32.9	66.0	198.9	408.1	462.3	873.3	13.1	(NA)	132.9	(NA)	(NA)
1958 Census	302	190	37.7	220.5	30.2	56.7	164.1	315.9	359.7	687.3	14.3	(NA)	133.0	86	72
INDUSTRY 3463.--NONFERROUS FORGINGS															
1972 Census.....	46	33	5.8	63.7	4.5	9.0	45.4	104.0	118.9	222.5	7.0	(NA)	60.0	84	63
1971 ASM.....	(NA)	(NA)	6.3	60.7	4.5	8.7	40.6	116.5	123.5	220.8	4.7	90.9	62.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	7.1	68.4	5.2	10.9	46.6	101.7	137.5	237.3	5.1	121.6	81.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	9.9	95.4	7.2	15.2	63.7	151.5	182.3	329.3	14.8	189.1	89.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	9.3	84.6	6.8	14.6	57.6	143.0	170.7	310.5	22.5	181.3	79.3	(NA)	(NA)
1967 Census.....	41	31	10.1	87.5	7.4	16.5	61.4	154.4	178.0	333.1	32.4	164.6	72.2	67	54
1966 ASM.....	(NA)	(NA)	9.6	77.8	7.3	16.1	56.5	145.6	178.1	311.4	16.5	(NA)	68.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	7.6	59.8	5.6	12.4	42.1	105.4	124.7	220.6	13.0	(NA)	49.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	7.2	56.9	5.4	12.0	40.0	88.5	110.5	196.1	13.1	97.2	38.1	(NA)	(NA)
1963 Census.....	34	19	6.3	47.6	4.6	10.1	32.5	71.4	93.4	165.1	4.7	80.8	34.3	69	55
1962 ASM.....	(NA)	(NA)	* 7.0	* 49.0	* 5.4	* 11.1	* 38.3	* 78.1	* 99.7	* 175.3	* 4.0	75.0	30.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	5.4	40.0	4.1	8.4	30.4	47.2	79.2	124.6	* 4.7	(NA)	28.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	* 5.4	* 38.4	* 4.2	* 7.8	* 28.0	* 43.2	* 72.8	* 116.6	* 2.9	(NA)	23.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	* 4.7	* 30.1	* 3.6	* 7.2	* 21.6	* 37.9	* 65.6	* 103.5	* 1.3	(NA)	21.5	(NA)	(NA)
1958 Census	28	19	4.6	27.8	3.5	6.8	19.4	36.8	58.1	98.7	2.0	(NA)	20.9	85	60

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3465.--AUTOMOTIVE STAMPINGS (1972 SIC BASIS)															
1972 Census	453	364	123.3	1,485.4	103.0	217.5	1,174.6	2,663.8	2,624.5	5,286.0	117.5	(NA)	447.0	92	92
INDUSTRY 3466.--CROWNS AND CLOSURES (1972 SIC BASIS)															
1972 Census	53	48	8.1	74.1	6.7	13.4	55.1	159.7	180.9	336.5	8.3	(NA)	62.6	88	83
INDUSTRY 3469.--METAL STAMPINGS, N.E.C. (1972 SIC BASIS)															
1972 Census	2,354	980	91.6	777.7	74.0	146.1	552.4	1,460.8	1,233.3	2,673.9	75.7	(NA)	379.6	86	85
1967 INDUSTRY 3461.--METAL STAMPINGS (1972 SIC INDUSTRIES 3465, 3466, AND 3469)															
1972 Census ²	2,860	1,392	223.0	2,337.2	183.7	377.0	1,782.1	4,291.3	4,038.7	8,303.4	201.5	(NA)	889.2	90	89
1971 ASM	(NA)	(NA)	208.1	2,018.7	170.2	343.8	1,524.7	3,687.7	3,407.6	7,095.7	164.8	3,447.3	822.1	(NA)	(NA)
1970 ASM	(NA)	(NA)	213.2	1,943.2	173.6	357.4	1,461.5	3,322.9	3,117.6	6,424.3	205.9	3,398.7	781.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	238.9	2,031.1	198.4	409.2	1,547.4	3,539.9	3,412.6	6,923.3	287.1	3,128.9	798.9	(NA)	(NA)
1968 ASM	(NA)	(NA)	232.1	1,923.3	193.0	406.4	1,479.1	3,487.7	3,228.2	6,684.1	155.1	2,897.1	767.2	(NA)	(NA)
1967 Census	2,710	1,351	225.9	1,685.5	187.0	379.8	1,272.4	3,030.8	2,874.7	5,893.7	195.8	2,852.1	705.3	89	91
1966 ASM	(NA)	(NA)	226.1	1,645.3	190.2	396.1	1,220.2	3,034.6	3,041.4	5,982.6	263.8	(NA)	732.9	(NA)	(NA)
1965 ASM	(NA)	(NA)	208.4	1,492.2	172.8	368.5	1,145.0	2,850.5	2,854.1	5,679.0	304.8	(NA)	680.7	(NA)	(NA)
1964 ASM	(NA)	(NA)	191.3	1,325.0	159.4	339.3	1,013.4	2,540.4	2,462.7	4,908.2	240.0	1,083.6	623.0	(NA)	(NA)
1963 Census	2,590	1,132	182.2	1,224.8	150.2	316.5	909.6	2,280.7	2,260.3	4,526.2	105.1	946.7	512.9	88	92
INDUSTRY 3471.--PLATING AND POLISHING															
1972 Census	3,265	826	54.9	405.4	45.5	89.8	291.2	745.2	296.4	1,040.1	40.4	(NA)	51.7	(³)	(³)
1971 ASM	(NA)	(NA)	52.9	364.3	42.7	85.1	262.6	669.3	264.9	934.9	31.1	407.1	48.9	(NA)	(NA)
1970 ASM	(NA)	(NA)	57.7	372.9	46.4	93.8	270.9	691.2	275.4	964.3	*34.3	424.2	50.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	62.9	399.7	51.8	101.2	294.4	738.4	282.4	1,020.7	*47.0	395.8	53.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	59.2	363.8	49.4	97.6	270.6	642.6	251.9	892.5	45.0	351.5	47.7	(NA)	(NA)
1967 Census	3,241	855	55.1	323.2	46.8	92.5	239.1	574.8	218.1	791.1	33.1	307.3	36.9	(³)	(³)
1966 ASM	(NA)	(NA)	51.1	296.2	43.4	91.4	219.5	509.9	199.5	719.8	40.2	(NA)	33.3	(NA)	(NA)
1965 ASM	(NA)	(NA)	48.0	261.9	40.5	83.3	193.7	444.6	173.2	630.9	26.8	(NA)	26.1	(NA)	(NA)
1964 ASM	(NA)	(NA)	45.4	239.1	37.8	75.6	177.5	395.4	165.8	559.6	*24.1	206.5	24.4	(NA)	(NA)
1963 Census	3,023	677	45.0	223.5	37.7	74.8	169.6	370.2	148.3	517.6	20.0	191.7	22.1	(³)	(³)
1962 ASM	(NA)	(NA)	49.2	231.5	41.6	80.4	182.0	401.2	147.9	549.1	25.5	172.3	20.9	(NA)	(NA)
1961 ASM	(NA)	(NA)	43.9	200.5	37.1	71.6	161.3	330.9	128.3	458.7	*16.2	(NA)	20.4	(NA)	(NA)
1960 ASM	(NA)	(NA)	44.2	200.0	38.1	72.6	161.5	337.0	128.3	465.1	19.1	(NA)	20.5	(NA)	(NA)
1959 ASM	(NA)	(NA)	43.3	189.5	37.2	72.0	142.3	325.8	127.3	451.3	15.2	(NA)	21.3	(NA)	(NA)
1958 Census	2,646	542	36.5	156.3	30.5	59.1	117.7	253.8	106.1	359.1	15.9	(NA)	23.5	(³)	(³)
INDUSTRY 3479.--METAL COATING AND ALLIED SERVICES															
1972 Census	1,497	372	27.6	221.1	22.5	43.5	155.9	379.1	328.6	701.8	24.4	(NA)	64.8	(³)	(³)
1971 ASM	(NA)	(NA)	22.3	178.3	18.3	36.3	123.3	294.4	251.9	550.0	18.0	215.2	53.1	(NA)	(NA)
1970 ASM	(NA)	(NA)	23.6	176.8	19.5	39.0	123.5	295.0	235.6	527.1	*21.2	212.5	54.1	(NA)	(NA)
1969 ASM	(NA)	(NA)	28.1	166.2	24.0	46.5	125.3	314.7	197.9	518.6	*18.5	186.7	40.3	(NA)	(NA)
1968 ASM	(NA)	(NA)	25.6	162.7	22.0	44.2	120.9	289.1	182.9	472.1	16.3	165.9	39.5	(NA)	(NA)
1967 Census	1,443	349	26.2	158.2	22.2	44.9	116.9	289.6	185.4	471.3	22.0	159.1	36.7	(³)	(³)
1966 ASM	(NA)	(NA)	25.2	145.0	21.1	42.3	103.8	270.6	201.1	469.1	17.9	(NA)	37.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	21.1	119.5	17.8	35.4	86.0	214.6	185.2	399.2	13.0	(NA)	34.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	22.0	118.5	18.3	37.9	87.1	223.5	141.6	361.1	*10.4	116.6	27.3	(NA)	(NA)
1963 Census	1,258	276	20.7	107.1	17.1	35.0	79.1	184.5	137.2	322.1	8.7	105.9	27.4	(³)	(³)
1962 ASM	(NA)	(NA)	20.1	95.6	16.3	32.7	67.4	166.3	132.1	295.4	*10.6	107.1	25.1	(NA)	(NA)
1961 ASM	(NA)	(NA)	18.5	85.2	15.5	31.3	61.4	143.8	96.5	241.1	*8.5	(NA)	20.7	(NA)	(NA)
1960 ASM	(NA)	(NA)	18.9	83.4	15.8	33.5	60.8	148.4	108.4	254.8	6.5	(NA)	20.9	(NA)	(NA)
1959 ASM	(NA)	(NA)	18.4	79.9	15.4	31.2	59.2	137.4	106.0	244.9	6.2	(NA)	21.4	(NA)	(NA)
1958 Census	1,003	192	15.7	68.0	12.9	25.2	50.0	108.4	88.8	196.4	4.7	(NA)	21.4	(³)	(³)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry 3451	1972 industry 3452	1972 industry 3462	1972 industry 3463	1972 industry 3465	1972 industry 3466	1972 industry 3469	1967 industry 3461	1972 industry 3471	1972 industry 3479
1972.....	1,781	580	252	40	388	42	2,277	(X)	3,180	1,426
1967.....	1,847	577	248	37	(X)	(X)	(X)	2,564	3,170	1,393
1963.....	1,861	504	248	32	(X)	(X)	(X)	2,491	2,968	1,227

Although 1967 industry 3461 is a combination of 1972 industries 3465, 3466, and 3469, the number of companies is not separately available for 1972 on an old SIC basis.

Footnotes continued on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A)--Continued

(X) Not applicable. (NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²The 1972 data are not strictly comparable to 1971 and prior years because of a revision in the 1972 Standard Industrial Classification. For 1972, these statistics are the combined totals for new industries 3465, 3466, and 3469. For 1971 and prior years, they are totals for industry 3461 as classified on the old SIC basis. With 1972 industry totals tabulated on the new SIC basis, several establishments have been classified into industries other than 3465, 3466, and 3469 as a result of changes in their primary product mix. (See table 1C.) However, the effect of these changes is estimated to be less than 1 percent of the total value of shipments for 1972 industries 3465, 3466, and 3469 combined.

³Relationships are not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3451.--SCREW MACHINE PRODUCTS											
1972 Census.....	8,822	(NA)	82	2,057	3.78	.40	.73	(NA)	16,022	55	9.51
1971 ASM.....	8,141	11,688	81	2,038	3.45	.41	.74	.48	14,468	56	8.78
1970 ASM.....	7,891	10,078	82	2,057	3.28	.40	.74	.44	13,996	56	8.29
1969 ASM.....	7,932	9,730	84	2,126	3.31	.38	.72	.42	14,497	55	8.10
1968 ASM.....	7,463	8,860	84	2,104	3.14	.37	.72	.41	13,596	55	7.68
1967 Census.....	7,124	8,560	85	2,125	2.93	.38	.72	.41	13,092	54	7.27
1966 ASM.....	6,699	(NA)	85	2,172	2.76	.41	.74	(NA)	12,040	56	6.52
1965 ASM.....	6,269	(NA)	83	2,186	2.60	.42	.76	(NA)	10,608	59	5.83
1964 ASM.....	6,231	7,810	83	2,176	2.60	.42	.78	.45	10,130	62	5.58
1963 Census.....	5,776	7,030	83	2,087	2.49	.40	.76	.44	9,726	59	5.59
1962 ASM.....	5,260	6,600	82	1,965	2.38	.41	.78	.46	8,556	61	5.31
1961 ASM.....	5,122	(NA)	82	1,932	2.29	.41	.77	(NA)	8,377	61	5.29
1960 ASM.....	4,983	(NA)	82	2,007	2.21	.41	.76	(NA)	8,459	59	5.13
1959 ASM.....	4,955	(NA)	85	2,008	2.23	.43	.75	(NA)	8,821	56	5.19
1958 Census.....	4,866	(NA)	81	2,005	2.20	.41	.78	(NA)	7,852	62	4.82
INDUSTRY 3452.--BOLTS, NUTS, RIVETS, AND WASHERS											
1972 Census.....	9,812	(NA)	77	2,097	4.22	.42	.71	(NA)	19,883	49	12.38
1971 ASM.....	8,849	14,534	75	2,028	3.85	.41	.71	.50	17,005	52	11.15
1970 ASM.....	8,512	12,671	75	2,036	3.69	.41	.73	.48	15,797	54	10.33
1969 ASM.....	8,374	11,310	76	2,131	3.60	.40	.71	.42	16,355	51	10.08
1968 ASM.....	7,860	10,860	77	2,122	3.33	.41	.71	.42	15,631	50	9.57
1967 Census.....	7,412	10,310	78	2,078	3.20	.42	.72	.42	14,574	51	9.03
1966 ASM.....	7,416	(NA)	76	2,204	3.05	.44	.71	(NA)	15,410	48	9.18
1965 ASM.....	6,935	(NA)	77	2,158	2.93	.44	.73	(NA)	13,573	51	8.17
1964 ASM.....	6,711	9,420	76	2,140	2.87	.44	.74	.42	12,780	53	7.84
1963 Census.....	6,439	9,260	76	2,104	2.78	.43	.74	.44	12,067	53	7.52
1962 ASM.....	6,281	8,950	76	2,107	2.63	.44	.76	.44	11,304	56	7.08
1961 ASM.....	5,889	(NA)	75	2,017	2.57	.44	.77	(NA)	10,199	58	6.71
1960 ASM.....	5,663	(NA)	76	2,002	2.50	.45	.76	(NA)	10,182	56	6.71
1959 ASM.....	5,765	(NA)	77	2,105	2.44	.44	.74	(NA)	10,817	53	6.70
1958 Census.....	5,370	(NA)	75	2,004	2.38	.42	.75	(NA)	9,475	57	6.26

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3462.--IRON AND STEEL FORGINGS											
1972 Census.....	11,289	(NA)	81	1,986	5.43	.54	.81	(NA)	19,294	59	11.99
1971 ASM.....	10,124	(NA)	80	1,876	5.09	.53	.82	(NA)	16,580	61	11.00
1970 ASM.....	9,752	(NA)	80	1,962	4.70	.53	.82	(NA)	15,474	63	9.87
1969 ASM.....	9,371	12,340	81	2,052	4.32	.53	.80	.36	16,304	58	9.79
1968 ASM.....	8,980	12,360	81	2,044	4.16	.52	.80	.38	15,458	58	9.38
1967 Census.....	8,396	11,040	81	2,012	3.95	.52	.80	.36	14,743	57	9.04
1966 ASM.....	8,394	(NA)	81	2,116	3.81	.54	.81	(NA)	14,419	58	8.42
1965 ASM.....	7,857	(NA)	81	2,078	3.66	.55	.83	(NA)	13,106	60	7.75
1964 ASM.....	7,552	9,500	81	2,036	3.56	.55	.84	.36	12,041	63	7.32
1963 Census.....	7,153	8,960	81	1,994	3.40	.54	.84	.37	10,885	66	6.78
1962 ASM.....	6,898	7,540	81	2,003	3.24	.52	.82	.33	11,161	62	6.91
1961 ASM.....	6,534	(NA)	79	1,940	3.12	.53	.85	(NA)	9,636	68	6.26
1960 ASM.....	6,386	(NA)	80	1,958	3.07	.55	.86	(NA)	9,606	66	6.13
1959 ASM.....	6,388	(NA)	81	2,006	3.01	.53	.83	(NA)	10,012	64	6.18
1958 Census.....	5,844	(NA)	80	1,880	2.89	.52	.84	(NA)	8,371	70	5.57
INDUSTRY 3463.--NONFERROUS FORGINGS											
1972 Census.....	10,982	(NA)	76	2,000	5.04	.53	.82	(NA)	17,931	61	11.56
1971 ASM.....	9,535	(NA)	72	2,014	4.28	.54	.84	(NA)	15,287	62	10.50
1970 ASM.....	9,438	(NA)	73	2,143	3.99	.55	.86	(NA)	14,362	68	9.14
1969 ASM.....	9,636	19,100	73	2,111	4.19	.55	.84	.57	15,303	63	9.97
1968 ASM.....	9,097	19,490	73	2,147	3.95	.55	.82	.58	15,376	59	9.79
1967 Census.....	8,663	16,300	73	2,230	3.72	.53	.80	.49	15,287	57	9.36
1966 ASM.....	8,135	(NA)	76	2,209	3.51	.57	.82	(NA)	15,233	53	9.03
1965 ASM.....	7,890	(NA)	74	2,205	3.40	.57	.84	(NA)	13,907	57	8.53
1964 ASM.....	7,886	13,500	74	2,230	3.34	.56	.85	.50	12,274	64	7.40
1963 Census.....	7,563	12,830	73	2,182	3.23	.57	.85	.49	11,335	67	7.09
1962 ASM.....	6,949	10,710	77	2,038	3.45	.57	.85	.43	11,071	63	7.04
1961 ASM.....	7,365	(NA)	75	2,066	3.60	.64	.96	(NA)	8,703	85	5.60
1960 ASM.....	7,116	(NA)	77	1,866	3.59	.62	.95	(NA)	8,010	89	5.55
1959 ASM.....	6,423	(NA)	77	1,994	2.99	.63	.92	(NA)	8,093	79	5.25
1958 Census.....	5,981	(NA)	75	1,945	2.87	.59	.87	(NA)	7,907	76	5.44
INDUSTRY 3465.--AUTOMOTIVE STAMPINGS											
1972 Census.....	12,047	(NA)	84	2,112	5.40	.50	.78	(NA)	21,604	56	12.25
INDUSTRY 3466.--CROWNS AND CLOSURES											
1972 Census.....	9,148	(NA)	83	2,000	4.11	.54	.76	(NA)	19,716	46	11.92
INDUSTRY 3469.--METAL STAMPINGS, N.E.C.											
1972 Census.....	8,483	(NA)	81	1,974	3.78	.46	.75	(NA)	15,847	54	9.94
1967 INDUSTRY 3461.--METAL STAMPINGS (1972 SIC INDUSTRIES 3465, 3466, and 3469)											
1972 Census ¹	10,481	(NA)	82	2,052	4.73	.48	.77	(NA)	19,243	54	11.38
1971 ASM.....	9,701	16,566	82	2,020	4.43	.48	.76	.49	17,721	55	10.73
1970 ASM.....	9,114	15,941	81	2,059	4.09	.49	.79	.53	15,586	58	9.30
1969 ASM.....	8,502	13,097	83	2,063	3.78	.49	.79	.45	14,817	57	8.65
1968 ASM.....	8,287	12,482	83	2,106	3.64	.48	.77	.43	15,027	55	8.58
1967 Census.....	7,461	12,625	83	2,031	3.35	.49	.77	.48	13,417	55	7.98
1966 ASM.....	7,277	(NA)	84	2,083	3.08	.51	.78	(NA)	13,421	54	7.66
1965 ASM.....	7,160	(NA)	83	2,133	3.11	.50	.77	(NA)	13,678	52	7.74
1964 ASM.....	6,926	5,664	83	2,129	2.99	.50	.77	.22	13,280	52	7.49
1963 Census.....	6,722	5,196	82	2,107	2.87	.50	.77	.21	12,518	54	7.21
INDUSTRY 3471.--PLATING AND POLISHING											
1972 Census.....	7,384	(NA)	83	1,974	3.24	.28	.67	(NA)	13,574	54	8.30
1971 ASM.....	6,887	7,696	81	1,993	3.09	.28	.67	.44	12,652	54	7.87
1970 ASM.....	6,463	7,352	80	2,022	2.89	.29	.67	.44	11,979	54	7.37
1969 ASM.....	6,355	6,290	82	1,954	2.91	.28	.67	.39	11,739	54	7.30
1968 ASM.....	6,145	5,940	83	1,976	2.77	.28	.69	.39	10,855	57	6.58
1967 Census.....	5,866	5,580	85	1,976	2.58	.28	.68	.39	10,432	56	6.21
1966 ASM.....	5,794	(NA)	85	2,104	2.40	.28	.69	(NA)	9,975	58	5.58
1965 ASM.....	5,460	(NA)	84	2,058	2.33	.27	.69	(NA)	9,269	59	5.34
1964 ASM.....	5,270	4,550	83	2,001	2.35	.30	.72	.37	8,715	60	5.23
1963 Census.....	4,971	4,260	84	1,984	2.27	.29	.72	.37	8,234	60	4.95
1962 ASM.....	4,700	3,500	85	1,971	2.26	.27	.69	.31	8,147	58	4.99
1961 ASM.....	4,567	(NA)	84	1,933	2.25	.28	.72	(NA)	7,539	61	4.62
1960 ASM.....	4,521	(NA)	86	1,903	2.22	.28	.71	(NA)	7,619	59	4.64
1959 ASM.....	4,376	(NA)	86	1,938	1.98	.28	.70	(NA)	7,522	58	4.52
1958 Census.....	4,285	(NA)	84	1,934	1.99	.30	.73	(NA)	6,959	62	4.30

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3479.--METAL COATING AND ALLIED SERVICES											
1972 Census.....	8,011	(NA)	82	1,933	3.58	.47	.78	(NA)	13,736	58	8.71
1971 ASM.....	7,996	9,650	82	1,984	3.40	.46	.78	.39	13,202	61	8.11
1970 ASM.....	7,492	9,004	83	2,000	3.17	.44	.78	.40	12,500	60	7.56
1969 ASM.....	5,915	6,640	85	1,938	2.70	.38	.70	.36	11,199	53	6.77
1968 ASM.....	6,355	6,480	86	2,009	2.74	.39	.73	.35	11,293	56	6.54
1967 Census.....	6,038	6,070	85	2,023	2.60	.39	.73	.34	11,053	55	6.45
1966 ASM.....	5,755	(NA)	84	2,001	2.45	.43	.74	(NA)	10,739	54	6.39
1965 ASM.....	5,657	(NA)	84	1,991	2.43	.46	.76	(NA)	10,160	56	6.06
1964 ASM.....	5,397	5,300	83	2,073	2.30	.39	.72	.32	10,177	53	5.89
1963 Census.....	5,182	5,120	83	2,045	2.26	.43	.76	.33	8,929	58	5.27
1962 ASM.....	4,760	5,330	81	2,005	2.06	.45	.77	.36	8,283	57	5.09
1961 ASM.....	4,607	(NA)	84	2,011	1.96	.40	.75	(NA)	7,775	59	4.60
1960 ASM.....	4,415	(NA)	83	2,124	1.82	.43	.75	(NA)	7,853	56	4.43
1959 ASM.....	4,350	(NA)	84	2,022	1.90	.43	.76	(NA)	7,486	58	4.41
1958 Census.....	4,340	(NA)	82	1,955	1.98	.45	.80	(NA)	6,912	63	4.30

(NA) Not available.

¹The 1972 data are not strictly comparable to 1971 and prior years. (See footnote 2, table 1A.)

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
New industry 3465.....	453	364	123.3	2,663.8	5,286.0	(X)	(X)	(X)	(X)	(X)
Old industry 3461.....	453	364	123.3	2,663.8	5,286.0	2,862	1,394	223.8	4,308.7	8,332.6
New industry 3466.....	53	48	8.1	159.7	336.5	(X)	(X)	(X)	(X)	(X)
Old industry 3461.....	53	48	8.1	159.7	336.5	2,862	1,394	223.8	4,308.7	8,332.6
New industry 3469.....	2,354	980	91.6	1,460.8	2,673.9	(X)	(X)	(X)	(X)	(X)
Old industry 3461.....	2,354	980	91.6	1,460.8	2,673.9	2,862	1,394	223.8	4,308.7	8,332.6

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3451-- SCREW MACHINE PRODUCTS													
UNITED STATES. E1	1 873	611	40.4	356.4	33.1	68.1	257.2	647.3	423.3	1 061.7	33.2	49.0	641.5
NORTHEAST REGION. E1	615	181	12.0	97.7	9.8	19.5	69.1	175.5	103.9	276.3	(D)	15.4	188.6
NEW ENGLAND DIVISION. E1	303	84	5.9	46.8	4.8	9.8	33.0	81.6	44.5	124.0	(D)	7.7	89.5
MASSACHUSETTS. E1	88	30	2.1	17.8	1.7	3.7	12.9	29.3	16.3	44.8	(D)	2.7	30.3
RHODE ISLAND. E1	42	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT. E1	166	45	3.2	24.4	2.6	5.1	16.8	43.8	23.5	66.4	(D)	4.4	52.5
MIDDLE ATLANTIC DIVISION. E1	312	97	6.2	50.9	5.0	9.7	36.1	93.9	59.4	152.3	(D)	7.7	99.1
NEW YORK. E1	137	43	2.9	24.8	2.3	4.3	17.2	47.4	34.1	81.2	(D)	3.6	46.0
NEW JERSEY. E1	103	30	1.8	15.4	1.4	2.9	11.0	27.0	13.5	40.0	(D)	2.1	29.9
PENNSYLVANIA. E1	72	24	1.5	10.8	1.2	2.4	7.8	19.6	11.8	31.1	(D)	1.9	23.2
NORTH CENTRAL REGION.	897	352	23.0	213.5	19.0	39.8	156.5	384.5	274.0	653.4	21.8	27.2	366.2
EAST NORTH CENTRAL DIVISION.	813	316	20.7	192.2	17.2	36.0	141.5	349.3	254.6	599.0	20.4	24.4	330.9
OHIO.	175	76	4.7	40.9	3.9	8.2	30.4	70.7	49.9	120.1	(D)	6.2	74.1
INDIANA.	64	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	38.7
ILLINOIS. E1	251	84	6.6	61.9	5.5	11.7	47.0	109.9	73.8	181.5	(D)	7.2	98.7
MICHIGAN. E1	261	110	6.3	60.4	5.1	10.7	43.0	120.7	100.4	219.8	(D)	6.8	102.1
WISCONSIN.	62	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	17.3
WEST NORTH CENTRAL DIVISION. E1	84	36	2.3	21.3	1.8	3.8	15.0	35.3	19.4	54.4	1.4	2.8	35.2
MINNESOTA. E1	32	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI.	34	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	16.3
SOUTH REGION. E1	86	30	1.9	14.0	1.5	3.1	10.4	27.8	15.9	43.4	1.1	1.6	18.4
SOUTH ATLANTIC DIVISION. E1	42	12	.7	5.5	.6	1.3	4.1	10.8	5.2	15.9	.5	.9	8.5
MARYLAND.	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA. E2	19	6	.3	2.2	.2	.5	1.5	4.7	2.3	6.9	.3	.3	3.3
EAST SOUTH CENTRAL DIVISION. E1	18	9	.6	4.8	.5	1.0	3.6	9.3	5.3	14.5	(D)	.3	3.7
TENNESSEE.	8	6	.4	2.6	.3	.6	2.1	5.0	2.6	7.5	(D)	(NA)	(NA)
ALABAMA. E4	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. E1	26	9	.5	3.7	.4	.8	2.7	7.7	5.3	13.0	(D)	.5	6.2
TEXAS.	16	6	.3	2.2	.2	.5	1.5	4.1	2.4	6.5	.2	.8	3.7
WEST REGION. E1	205	48	3.5	31.0	2.8	5.7	21.3	59.4	29.8	88.5	(D)	4.9	68.3
MOUNTAIN DIVISION. E2	19	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
COLORADO. E4	12	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. E1	186	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA. E1	175	39	2.9	26.5	2.3	4.9	18.1	51.6	25.5	76.7	(D)	4.4	63.9
3452-- BOLTS, NUTS, RIVETS, AND WASHERS													
UNITED STATES.	679	397	60.6	594.6	46.4	97.3	410.6	1 204.9	859.4	2 043.1	55.8	61.0	1 212.9
NORTHEAST REGION.	216	115	18.5	174.5	13.6	28.2	116.8	344.3	216.3	557.5	(D)	23.1	316.9
NEW ENGLAND DIVISION.	90	50	7.1	63.1	5.1	10.9	40.5	131.4	77.6	205.5	(D)	9.2	123.1
NEW HAMPSHIRE.	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS.	24	13	2.4	20.2	1.7	3.5	12.7	39.8	21.6	60.9	(D)	4.1	50.2
RHODE ISLAND.	12	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT.	50	26	3.7	33.8	2.5	5.6	21.4	75.4	43.3	116.0	(D)	3.8	59.0
MIDDLE ATLANTIC DIVISION.	126	65	11.4	111.4	8.5	17.3	76.3	212.9	138.7	352.0	(D)	14.0	193.8
NEW YORK.	42	16	2.7	24.1	1.9	3.8	14.7	50.8	25.6	77.6	(D)	3.4	49.8
NEW JERSEY.	30	16	2.8	30.4	2.0	4.0	20.1	60.2	33.3	92.0	(D)	3.5	55.7
PENNSYLVANIA.	54	33	5.9	56.8	4.6	9.5	41.5	101.9	79.8	182.4	(D)	7.0	88.3
NORTH CENTRAL REGION.	308	198	30.1	311.8	23.5	50.1	223.0	641.1	499.9	1 125.5	35.6	31.6	474.6
EAST NORTH CENTRAL DIVISION.	290	189	29.5	306.8	23.0	49.2	219.8	629.9	491.5	1 106.6	35.1	31.0	465.8
OHIO.	74	53	9.3	94.7	7.3	14.9	66.8	198.1	163.5	359.1	(D)	11.0	157.9
INDIANA.	17	13	1.5	12.7	1.1	2.2	8.7	33.2	24.8	65.9	.8	1.1	13.6
ILLINOIS.	110	67	12.5	128.5	9.8	21.6	94.8	248.2	175.8	417.4	14.7	12.7	191.9
MICHIGAN.	76	47	5.2	61.7	4.1	8.9	43.2	129.6	115.0	241.2	(D)	5.3	89.4
WISCONSIN.	13	9	.9	9.1	.7	1.5	6.3	20.9	12.4	33.0	1.3	.9	13.0
WEST NORTH CENTRAL DIVISION. E1	18	9	.6	5.0	.4	.9	3.2	11.2	8.5	18.9	.6	.7	8.8
MINNESOTA.	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSOURI. E3	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.3
SOUTH REGION.	67	35	5.4	41.5	4.6	9.6	31.1	92.5	80.4	169.1	4.3	4.6	54.9
SOUTH ATLANTIC DIVISION.	21	9	2.2	16.7	1.9	3.9	11.8	34.2	32.7	66.5	2.5	1.9	28.1
VIRGINIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA.	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA. E1	10	3	.6	4.6	.6	1.2	3.5	1.7	10.6	13.0	.9	.3	3.5
EAST SOUTH CENTRAL DIVISION.	23	17	2.4	19.4	2.1	4.4	15.3	45.5	35.5	78.2	(D)	1.9	18.7
KENTUCKY.	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE.	8	4	.4	3.0	.4	.8	2.4	7.5	5.7	12.5	(D)	(NA)	(NA)
ALABAMA.	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSISSIPPI.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION.	23	9	.8	5.5	.7	1.3	4.0	12.7	12.2	24.4	(D)	.8	8.1
TEXAS.	16	6	.7	4.8	.6	1.1	3.5	11.7	10.9	22.0	.4	CC	(D)
WEST REGION.	88	49	6.6	66.8	4.7	9.4	39.7	127.0	62.9	191.0	(D)	7.8	133.1
MOUNTAIN DIVISION.	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	80	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA.	77	43	6.2	63.6	4.4	9.0	37.8	120.7	59.5	181.7	(D)	7.7	131.8

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3462-- IRON AND STEEL FORGINGS													
UNITED STATES.	280	180	34.3	387.2	27.8	55.2	299.5	661.8	761.8	1 416.1	28.1	41.2	607.4
NORTHEAST REGION	66	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.0	129.0
NEW ENGLAND DIVISION	21	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	47.6
MAINE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS.	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	34.7
CONNECTICUT.	8	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	45	28	3.8	37.3	3.0	6.2	27.8	68.5	71.6	136.3	(D)	5.5	81.5
NEW YORK	15	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	15.5
NEW JERSEY E1	7	2	.3	2.8	.2	.4	1.7	5.0	4.7	9.2	(D)	.7	10.2
PENNSYLVANIA	23	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	55.8
NORTH CENTRAL REGION	142	96	24.8	293.1	20.3	39.9	230.2	486.7	578.1	1 064.0	21.6	28.9	423.1
EAST NORTH CENTRAL DIVISION.	130	96	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	28.8	422.3
OHIO	45	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	102.4
INDIANA	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	52.6
ILLINOIS	38	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6	86.2
MICHIGAN	31	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	92.3
WISCONSIN.	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	89.3
SOUTH REGION	39	24	2.0	18.2	1.6	3.5	13.9	39.6	42.3	82.1	1.9	1.7	26.9
SOUTH ATLANTIC DIVISION. E1	9	3	.2	1.1	.1	.3	.7	2.3	2.0	4.4	(Z)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	5	4	.3	3.2	.3	.7	2.4	5.7	6.5	12.3	(D)	.3	3.7
TENNESSEE.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.7
WEST SOUTH CENTRAL DIVISION.	25	17	1.5	13.9	1.2	2.6	10.7	31.6	33.8	65.4	(D)	1.3	20.9
TEXAS.	20	15	1.3	12.2	1.0	2.2	9.4	27.9	31.0	59.0	(D)	EE	(D)
WEST REGION.	33	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	28.3
PACIFIC DIVISION	31	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA	24	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	26.0
3463-- NONFERROUS FORGINGS													
UNITED STATES.	46	33	5.8	63.7	4.5	9.0	45.4	104.0	118.9	222.5	7.0	10.1	154.4
NORTHEAST REGION	12	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	42.8
NEW ENGLAND DIVISION	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MASSACHUSETTS.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PENNSYLVANIA	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION	12	8	2.1	24.1	1.6	3.4	17.8	35.1	48.4	84.6	2.5	EE	(D)
EAST NORTH CENTRAL DIVISION.	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDIANA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ILLINOIS	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.6
SOUTH REGION	5	4	.5	3.9	.5	1.0	2.9	4.6	3.0	7.8	.2	FF	(D)
WEST SOUTH CENTRAL DIVISION.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TEXAS.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST REGION.	17	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	25.5
PACIFIC DIVISION	16	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	25.5
CALIFORNIA	16	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	25.5
3465-- AUTOMOTIVE STAMPINGS													
UNITED STATES.	453	364	123.3	1 485.4	103.0	217.5	1 174.6	2 663.8	2 624.5	5 286.0	117.5	(NA)	(NA)
NORTHEAST REGION	32	26	16.5	210.2	13.3	28.6	164.6	352.0	275.0	625.7	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	8	8	2.8	26.6	2.1	4.8	18.8	45.7	31.1	76.1	(D)	(NA)	(NA)
MASSACHUSETTS.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	24	18	13.7	183.5	11.2	23.8	145.8	306.3	243.9	549.6	(D)	(NA)	(NA)
NEW YORK	8	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION	392	312	100.7	1 231.8	84.5	178.2	976.4	2 220.8	2 236.3	4 459.7	93.0	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	384	305	99.8	1 225.0	83.9	177.0	972.1	2 207.2	2 223.5	4 433.4	92.6	(NA)	(NA)
OHIO	95	79	28.9	362.2	24.3	51.0	287.8	644.7	643.4	1 280.8	(D)	(NA)	(NA)
INDIANA	30	26	8.9	110.2	7.4	15.5	87.2	186.8	197.4	386.9	(D)	(NA)	(NA)
ILLINOIS	25	17	9.5	123.6	7.9	17.0	99.1	210.3	238.6	453.7	12.2	(NA)	(NA)
MICHIGAN	229	179	52.3	625.6	44.0	93.0	495.5	1 157.1	1 137.0	2 296.8	49.3	(NA)	(NA)
WISCONSIN.	5	4	.3	3.3	.3	.6	2.5	8.3	7.1	15.1	.3	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	8	7	.8	6.8	.6	1.2	4.3	13.6	12.8	26.3	.4	(NA)	(NA)
MINNESOTA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3465-- AUTOMOTIVE STAMPINGS--CONTINUED													
SOUTH REGION	23	21	5.7	39.2	4.8	9.9	30.5	82.5	103.8	182.3	3.3	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	7	7	2.3	15.9	2.1	4.3	13.5	33.6	52.6	83.8	1.3	(NA)	(NA)
SOUTH CAROLINA	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	14	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	6	5	.5	4.3	.4	.8	3.2	8.6	9.5	18.3	(D)	(NA)	(NA)
PACIFIC DIVISION	6	5	.5	4.3	.4	.8	3.2	8.6	9.5	18.3	(D)	(NA)	(NA)
CALIFORNIA	6	5	.5	4.3	.4	.8	3.2	8.6	9.5	18.3	(D)	(NA)	(NA)
3466-- CROWNS AND CLOSURES													
UNITED STATES.	53	48	8.1	74.1	6.7	13.4	55.1	159.7	180.9	336.5	8.3	(NA)	(NA)
NORTHEAST REGION	20	17	2.6	24.9	2.2	4.4	18.6	56.0	57.7	112.1	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	17	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY	5	5	.9	9.3	.8	1.5	6.9	19.0	19.9	38.3	(D)	(NA)	(NA)
PENNSYLVANIA	7	6	1.3	12.1	1.1	2.3	9.3	29.5	30.3	58.7	(D)	(NA)	(NA)
NORTH CENTRAL REGION	19	17	4.1	37.9	3.4	6.5	28.0	81.9	95.6	169.1	3.1	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	19	17	4.1	37.9	3.4	6.5	28.0	81.9	95.6	169.1	3.1	(NA)	(NA)
INDIANA.	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	11	10	2.3	21.2	2.0	3.7	16.3	46.4	42.4	86.7	1.8	(NA)	(NA)
SOUTH REGION	8	8	.8	6.1	.7	1.5	4.6	14.8	16.5	30.9	.7	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	6	6	.5	5.1	.4	.9	3.8	14.0	11.0	24.3	(D)	(NA)	(NA)
PACIFIC DIVISION	6	6	.5	5.1	.4	.9	3.8	14.0	11.0	24.3	(D)	(NA)	(NA)
CALIFORNIA	6	6	.5	5.1	.4	.9	3.8	14.0	11.0	24.3	(D)	(NA)	(NA)
3469-- METAL STAMPINGS, NEC													
UNITED STATES.	2 354	980	91.6	777.7	74.0	146.1	552.4	1 460.8	1 233.3	2 673.9	75.7	(NA)	(NA)
NORTHEAST REGION	793	316	26.4	224.5	21.4	42.2	156.2	406.4	314.9	715.1	(D)	(NA)	(NA)
NEW ENGLAND DIVISION	285	126	8.9	73.9	7.3	14.5	50.7	129.0	98.4	225.5	(D)	(NA)	(NA)
NEW HAMPSHIRE.	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS.	E1 120	55	4.3	35.7	3.5	6.8	24.9	59.8	45.0	103.4	(D)	(NA)	(NA)
RHODE ISLAND	37	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	115	50	3.3	28.3	2.7	5.6	19.6	52.2	40.0	91.8	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	508	190	17.6	150.7	14.1	27.7	105.5	277.3	216.5	489.6	(D)	(NA)	(NA)
NEW YORK	E1 265	91	8.7	75.7	7.0	13.5	52.3	140.7	95.8	233.9	(D)	(NA)	(NA)
NEW JERSEY	146	65	5.3	46.2	4.2	8.5	32.3	78.2	71.5	149.0	(D)	(NA)	(NA)
PENNSYLVANIA	97	34	3.5	28.7	2.8	5.7	20.9	58.4	49.2	106.7	(D)	(NA)	(NA)
NORTH CENTRAL REGION	1 000	464	48.5	422.3	38.8	76.2	300.6	797.6	700.8	1 487.7	38.1	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.	866	394	42.7	373.7	34.2	67.1	265.8	704.2	633.2	1 329.0	32.0	(NA)	(NA)
OHIO	214	109	12.3	107.3	10.0	20.3	76.6	192.3	195.4	383.3	(D)	(NA)	(NA)
INDIANA.	72	37	3.3	24.8	2.7	5.2	18.0	46.5	38.3	84.8	(D)	(NA)	(NA)
ILLINOIS	312	144	13.0	121.2	10.6	21.3	87.4	244.6	206.9	451.8	9.8	(NA)	(NA)
MICHIGAN	E2 169	52	4.0	37.7	3.3	6.5	27.9	68.1	60.4	127.0	4.9	(NA)	(NA)
WISCONSIN.	100	53	10.2	83.9	7.8	13.9	56.5	155.3	134.8	287.4	6.7	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	133	69	5.7	47.4	4.6	8.9	34.2	90.9	65.0	153.5	5.9	(NA)	(NA)
MINNESOTA.	58	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	13	7	.7	4.9	.6	1.2	3.8	11.9	6.9	18.7	.4	(NA)	(NA)
MISSOURI	46	21	1.9	16.5	1.5	3.0	12.1	29.6	25.9	54.6	2.6	(NA)	(NA)
SOUTH REGION	229	92	9.4	66.2	8.0	16.0	49.9	135.8	135.6	269.0	9.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	E1 91	39	3.7	25.2	3.2	6.2	19.2	53.2	57.5	108.3	2.4	(NA)	(NA)
MARYLAND	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA	E8 6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA.	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA	E2 19	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	15	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	28	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	72	33	4.2	31.0	3.6	7.4	23.6	56.6	59.0	115.8	(D)	(NA)	(NA)
KENTUCKY	27	17	1.8	14.4	1.4	2.9	10.6	24.4	22.7	46.6	(D)	(NA)	(NA)
TENNESSEE.	26	5	1.3	8.0	1.2	2.5	6.3	15.7	17.3	32.5	(D)	(NA)	(NA)
ALABAMA.	13	7	.8	6.0	.7	1.3	4.7	10.9	12.8	24.8	(D)	(NA)	(NA)
MISSISSIPPI.	6	4	.4	2.6	.3	.6	2.0	5.6	6.2	12.0	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3469-- METAL STAMPINGS, NEC--CONTINUED													
WEST SOUTH CENTRAL DIVISION, . E1	66	20	1.5	10.0	1.2	2.4	7.2	26.0	19.2	44.8	(D)	(NA)	(NA)
ARKANSAS E1	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA E3	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS, E1	44	13	.7	5.2	.6	1.1	3.6	9.7	7.0	16.6	(D)	(NA)	(NA)
WEST REGION, E1	332	108	7.2	64.7	5.8	11.8	45.7	121.1	82.0	202.2	(D)	(NA)	(NA)
MOUNTAIN DIVISION, E1	26	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO, E1	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION E1	306	105	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON E3	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON E1	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA E1	279	99	6.5	59.2	5.2	10.7	41.6	111.0	73.9	184.1	(D)	(NA)	(NA)
3471-- PLATING AND POLISHING													
UNITED STATES, E2	3 265	826	54.9	405.4	45.5	89.8	291.2	745.2	296.4	1 040.1	40.4	55.1	574.8
NORTHEAST REGION E2	994	238	15.9	111.9	13.3	25.7	80.9	198.1	84.3	281.7	(D)	16.8	168.8
NEW ENGLAND DIVISION E2	358	96	6.3	43.9	5.3	10.0	31.7	77.9	32.7	110.3	(D)	6.5	66.1
MASSACHUSETTS, E2	123	34	2.0	13.5	1.6	3.0	9.6	24.2	10.4	34.4	(D)	2.2	22.4
RHODE ISLAND E3	110	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT, E1	114	31	2.2	17.8	1.8	3.6	12.4	32.7	13.3	45.8	(D)	2.7	31.5
MIDDLE ATLANTIC DIVISION E2	636	142	9.6	68.0	8.0	15.7	49.2	120.1	51.6	171.4	(D)	10.3	102.7
NEW YORK E2	346	83	5.5	37.9	4.7	9.3	27.8	65.0	26.7	91.6	(D)	6.3	61.1
NEW JERSEY E3	156	27	2.2	15.9	1.8	3.5	11.2	30.6	14.0	44.5	(D)	2.0	21.3
PENNSYLVANIA E1	134	32	1.9	14.2	1.5	2.9	10.2	24.5	10.9	35.2	(D)	2.0	20.3
NORTH CENTRAL REGION E1	1 240	342	23.1	176.8	19.1	38.2	125.5	337.4	135.9	472.7	(D)	23.0	244.5
EAST NORTH CENTRAL DIVISION, . E1	1 089	309	20.6	156.1	16.9	34.0	110.7	301.8	125.1	426.3	(D)	20.7	218.0
OHIO E1	287	79	5.3	40.0	4.3	8.7	28.1	83.2	35.1	117.9	(D)	4.7	49.9
INDIANA E1	91	33	2.0	14.3	1.7	3.4	10.7	27.1	8.3	35.4	(D)	1.8	20.5
ILLINOIS E1	302	94	5.9	45.7	4.8	9.7	31.4	85.7	32.4	115.8	(D)	6.4	69.6
MICHIGAN E1	327	86	6.2	47.0	5.1	10.3	33.8	90.8	43.4	134.3	(D)	6.5	64.2
WISCONSIN, E2	82	17	1.2	9.1	1.0	1.9	6.6	17.0	5.9	22.8	(D)	1.3	13.9
WEST NORTH CENTRAL DIVISION, . E1	151	33	2.6	20.8	2.1	4.2	14.9	35.6	10.8	46.4	(D)	2.4	26.5
MINNESOTA, E1	45	14	.9	8.6	.8	1.4	6.2	13.8	4.5	18.3	(D)	.9	11.6
IOWA E1	21	1	.2	1.3	.1	.3	1.0	2.3	.6	2.8	(D)	AA	(D)
MISSOURI E1	63	13	1.3	9.3	1.0	2.1	6.4	16.4	4.8	21.2	(D)	1.0	10.2
SOUTH REGION E2	429	97	6.2	41.8	5.1	10.0	30.4	75.3	28.1	103.1	(D)	5.8	58.0
SOUTH ATLANTIC DIVISION, . . . E3	195	41	2.7	18.7	2.2	4.2	13.5	33.6	12.5	46.0	(D)	(NA)	(NA)
MARYLAND E1	21	4	.2	1.8	.2	.3	1.3	3.0	.9	3.8	(D)	.2	3.0
VIRGINIA E1	15	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST VIRGINIA, E1	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA E4	39	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.2
SOUTH CAROLINA E1	13	4	.2	1.1	.2	.3	.8	2.3	.7	3.0	(D)	AA	(D)
GEORGIA, E2	23	7	.4	3.1	.3	.7	2.2	4.8	2.0	6.9	(D)	.5	4.7
FLORIDA, E3	67	8	.8	5.0	.6	1.2	3.6	9.5	3.1	12.6	(D)	1.2	12.6
EAST SOUTH CENTRAL DIVISION, . E2	83	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	8.9
KENTUCKY E3	21	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.7
TENNESSEE, E1	37	11	.8	4.9	.7	1.5	3.6	8.5	2.6	11.1	(D)	.8	5.6
ALABAMA, E5	20	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION, . E2	151	28	1.8	13.1	1.5	3.0	9.3	22.9	8.5	31.2	(D)	1.8	20.5
OKLAHOMA E3	31	3	.2	1.7	.2	.4	1.1	3.3	1.1	4.5	(D)	.4	5.1
TEXAS, E2	101	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	14.1
WEST REGION, E2	602	149	9.8	74.9	8.1	15.9	54.3	134.5	48.1	182.5	(D)	9.5	103.5
MOUNTAIN DIVISION, E2	46	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	6.5
COLORADO E1	15	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.3
ARIZONA, E3	16	5	.3	2.0	.2	.4	1.4	3.3	1.1	4.3	(D)	.3	2.5
PACIFIC DIVISION E2	556	138	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.8	96.9
WASHINGTON E1	26	5	.4	3.6	.3	.5	2.5	6.4	1.8	8.3	(D)	.3	3.1
OREGON E2	22	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.6
CALIFORNIA E2	503	125	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.2	90.8
3479-- METAL COATING AND ALLIED SERVICES													
UNITED STATES, E1	1 497	372	27.6	221.1	22.5	43.5	155.9	379.1	328.6	701.8	24.4	26.2	289.6
NORTHEAST REGION E1	474	104	6.7	54.4	5.4	10.4	37.1	96.5	82.1	177.0	(D)	6.9	73.7
NEW ENGLAND DIVISION E1	152	28	1.6	11.9	1.3	2.4	8.0	20.1	10.0	30.0	(D)	1.8	17.2
MASSACHUSETTS, E1	84	17	1.0	7.3	.8	1.5	5.1	11.7	4.7	16.4	(D)	1.0	9.0
RHODE ISLAND E3	42	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CONNECTICUT, E1	23	5	.3	2.4	.2	.4	1.3	4.7	2.3	7.0	(D)	.3	4.4
MIDDLE ATLANTIC DIVISION . . . E1	322	76	5.1	42.5	4.1	8.0	29.1	76.4	32.1	147.0	(D)	5.2	56.5
NEW YORK E2	148	24	1.7	13.5	1.4	2.8	9.3	21.0	10.9	31.7	(D)	2.1	19.8
NEW JERSEY E2	90	22	1.3	10.8	1.1	2.2	7.9	20.2	14.4	34.4	(D)	1.3	14.9
PENNSYLVANIA E1	84	30	2.1	18.2	1.6	3.0	12.0	35.2	46.8	80.9	(D)	1.7	21.8

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	All employees ¹ (1,000)	Value added by manufacture (million dollars)
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3479-- METAL COATING AND ALLIED SERVICES--CONTINUED													
NORTH CENTRAL REGION E1	482	149	11.2	91.4	9.2	17.6	64.8	161.2	131.3	290.4	(D)	11.6	131.5
EAST NORTH CENTRAL DIVISION. . E1	420	132	9.8	81.2	8.1	15.5	57.2	140.9	116.4	255.7	(D)	10.6	116.7
OHIO E1	102	25	1.8	14.1	1.5	2.8	10.0	22.3	15.0	37.1	(D)	2.7	32.0
INDIANA	27	12	1.1	10.4	1.0	1.9	8.3	22.3	21.3	43.4	(D)	CC	(D)
ILLINOIS	143	48	3.6	34.6	2.8	5.7	23.5	58.0	61.4	118.5	(D)	3.9	48.5
MICHIGAN E2	128	40	2.5	18.1	2.1	4.0	12.6	32.0	14.2	45.9	(D)	FF	(D)
WISCONSIN	20	7	.8	4.1	.7	1.0	2.8	6.3	4.4	10.8	(D)	.5	4.3
WEST NORTH CENTRAL DIVISION. . .	62	17	1.3	10.2	1.1	2.1	7.6	20.3	15.0	34.7	(D)	1.0	14.8
MINNESOTA E1	18	6	.4	3.3	.4	.6	2.4	6.0	2.8	8.8	(D)	.3	3.3
MISSOURI	31	9	.8	6.1	.7	1.3	4.7	12.9	11.6	24.0	(D)	CC	(D)
SOUTH REGION E2	246	66	5.8	43.7	4.8	9.2	31.4	88.1	59.3	145.4	(D)	4.1	42.5
SOUTH ATLANTIC DIVISION. . . . E2	82	19	1.5	11.7	1.3	2.3	8.1	24.4	29.9	52.9	(D)	1.1	10.8
MARYLAND	20	5	.4	3.7	.3	.7	2.7	6.6	5.9	12.3	(D)	.3	3.0
NORTH CAROLINA	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.1
GEORGIA E5	14	5	.4	2.8	.3	.5	2.1	8.3	18.3	25.4	(D)	.2	1.6
FLORIDA	26	3	.3	2.0	.2	.4	1.4	3.9	1.7	5.6	(D)	.3	3.0
EAST SOUTH CENTRAL DIVISION. . E5	39	9	.7	4.4	.6	1.1	3.1	8.9	5.4	14.3	(D)	.9	7.4
KENTUCKY E1	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	3.8
ALABAMA E7	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.9
WEST SOUTH CENTRAL DIVISION. . E1	125	38	3.6	27.6	2.9	5.7	20.2	54.8	24.0	78.3	(D)	2.1	24.4
LOUISIANA	13	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	6.5
OKLAHOMA E6	16	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.8
TEXAS E1	95	27	2.5	18.2	2.0	3.7	12.9	39.4	15.2	54.1	1.9	1.4	15.1
WEST REGION. E1	295	53	3.9	31.6	3.2	6.3	22.5	33.4	55.9	89.0	(D)	3.6	41.8
MOUNTAIN DIVISION. E3	28	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.5
PACIFIC DIVISION E1	267	51	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	40.3
CALIFORNIA E1	239	48	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3	37.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Screw machine products (SIC 3451)	Bolts, nuts, rivets, and washers (SIC 3452)	Iron and steel forgings (SIC 3462)	Nonferrous forgings (SIC 3463)	Auto-motive stampings (SIC 3465)	Crowns and closures (SIC 3466)	Metal stampings, n.e.c. (SIC 3469)	Plating and polishing (SIC 3471)	Metal coating and allied services (SIC 3479)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	96	93	92	84	92	88	86	{ ² }	{ ² }
COVERAGE RATIO ¹ DO	90	91	68	63	92	84	85	{ ² }	{ ² }
ESTABLISHMENTS, TOTAL NUMBER	1 803	679	280	46	453	53	2 354	3 265	1 497
WITH 1 TO 19 EMPLOYEES DO	1 192	282	100	13	89	5	1 374	2 439	1 125
WITH 20 TO 99 EMPLOYEES DO	555	243	95	20	203	24	777	762	322
WITH 100 EMPLOYEES OR MORE DO	56	154	85	13	161	24	203	64	50
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	40.4	60.6	34.3	5.8	123.3	8.1	91.6	54.9	27.6
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	356.4	594.6	387.2	63.7	1 485.4	74.1	777.7	405.4	221.1
PRODUCTION WORKERS:									
AVERAGE FOR YEAR 1,000	33.1	46.4	27.8	4.5	103.0	6.7	74.0	45.5	22.5
MARCH DO	32.5	45.4	27.5	4.4	100.8	6.6	71.3	44.6	21.4
MAY DO	32.6	46.0	27.6	4.4	102.2	6.7	72.5	44.6	22.2
AUGUST DO	33.3	46.6	27.7	4.4	99.4	6.9	74.3	45.7	22.9
NOVEMBER DO	34.2	47.8	28.4	4.7	109.6	6.6	77.2	47.1	23.2
MAN-HOURS MILLIONS	68.1	97.3	55.2	9.0	217.5	13.4	146.1	89.8	43.5
JANUARY-MARCH DO	16.4	24.0	13.7	2.3	51.9	3.3	35.1	21.3	10.2
APRIL-JUNE DO	17.2	24.4	14.1	2.2	54.4	3.5	36.4	22.3	10.9
JULY-SEPTEMBER DO	16.7	23.5	12.9	2.2	53.4	3.5	36.0	22.6	11.1
OCTOBER-DECEMBER DO	17.8	25.4	14.4	2.4	57.7	3.3	38.6	23.5	11.3
WAGES MILLION DOLLARS	257.2	410.6	299.5	45.4	1 174.6	55.1	552.4	291.2	155.9
COST OF MATERIALS, ETC., TOTAL DO	423.3	859.4	761.8	118.9	2 624.5	180.9	1 233.3	296.4	328.6
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	347.3	702.5	674.9	101.6	2 480.6	166.1	1 083.0	228.6	291.7
COST OF REALES DO	7.8	58.0	20.9	.4	35.2	9.1	54.3	5.2	8.8
FUELS CONSUMED DO	4.5	10.7	31.4	4.0	15.2	1.5	11.3	14.7	9.7
PURCHASED ELECTRIC ENERGY DO	9.0	15.3	12.9	3.5	37.3	2.1	18.4	23.0	8.3
CONTRACT WORK DO	54.7	72.9	21.7	9.4	56.1	2.1	66.2	24.9	10.2
VALUE OF SHIPMENTS, INCLUDING REALES DO	1 061.7	2 043.1	1 416.1	222.5	5 286.0	336.5	2 673.9	1 040.1	701.8
VALUE OF REALES DO	12.4	79.0	23.6	.7	19.9	9.7	70.7	9.7	9.0
VALUE ADDED BY MANUFACTURE DO	647.3	1 204.9	661.8	104.0	2 663.8	159.7	1 460.8	745.2	379.1
MANUFACTURERS' INVENTORIES:									
BEGINNING OF YEAR, TOTAL DO	101.7	380.0	192.6	57.5	436.8	62.2	347.4	47.6	53.3
FINISHED PRODUCTS DO	27.9	178.8	12.0	4.0	28.1	24.6	100.1	7.7	10.6
WORK IN PROCESS DO	37.5	71.9	73.2	35.8	207.5	11.2	90.3	7.3	7.5
MATERIALS, SUPPLIES, FUEL, ETC. DO	36.3	129.2	107.5	17.7	201.2	26.4	157.0	32.6	35.1
END OF YEAR, TOTAL DO	115.5	409.5	219.4	60.0	447.0	62.6	379.6	51.7	64.8
FINISHED PRODUCTS DO	30.1	181.1	12.5	1.5	28.4	27.7	107.2	7.9	13.8
WORK IN PROCESS DO	44.2	90.8	80.1	38.8	209.5	12.3	103.4	8.6	10.1
MATERIALS, SUPPLIES, FUEL, ETC. DO	41.2	137.7	126.9	19.7	209.1	22.6	169.0	35.1	40.9
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	40.5	63.3	31.9	8.6	131.4	8.7	85.6	43.6	30.8
NEW PLANT AND EQUIPMENT, TOTAL DO	33.2	55.8	28.1	7.0	117.5	8.3	75.7	40.4	24.4
NEW STRUCTURES AND ADDITIONS TO PLANT DO	5.0	9.7	4.3	1.3	12.9	1.5	13.0	7.6	4.7
NEW MACHINERY AND EQUIPMENT DO	28.2	46.1	23.9	5.7	104.6	6.9	62.7	32.8	19.7
USED PLANT AND EQUIPMENT DO	7.3	7.5	3.7	1.7	13.8	.3	9.9	3.2	6.4

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.³Relationships are not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expendi- tures, new (million dollars)	End-of- year inven- tories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3451-- SCREW MACHINE PRODUCTS											
ESTABLISHMENTS, TOTAL, E1	1 812	40.4	254.8	20.1	65.1	457.1	147.	622.5	1 761.7	20.1	1 094.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	520	1.0	8.3	1.0	1.6	5.7	21.4	13.1	34.5	1.1	3.4
5 TO 9 EMPLOYEES E6	330	2.2	19.2	1.8	3.6	13.5	37.0	22.2	59.1	1.7	5.2
10 TO 19 EMPLOYEES E1	342	4.8	41.3	4.0	7.8	29.3	72.2	47.7	119.4	3.2	9.2
20 TO 49 EMPLOYEES	407	18.5	111.5	13.5	21.2	87.1	217.5	127.7	321.4	12.1	101.5
50 TO 99 EMPLOYEES	148	10.0	87.5	8.3	17.7	64.6	156.8	111.7	265.2	10.0	31.6
100 TO 249 EMPLOYEES	48	6.5	61.5	5.5	11.2	34.3	77.1	47.7	107.1	4.3	12.4
250 TO 499 EMPLOYEES	6	3.0	29.0	2.2	4.0	20.0	48.0	26.6	74.3	2.0	12.9
1,000 TO 2,499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	662	2.3	19.0	2.0	3.7	13.0	41.9	26.1	68.0	2.2	7.1
3452-- BOLTS, NUTS, RIVETS, AND WASHERS											
ESTABLISHMENTS, TOTAL,	670	61.6	564.1	40.4	97.1	411.1	1 178.1	665.9	1 745.1	70.3	1 407.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	104	.2	2.4	.2	.3	1.9	6.0	3.6	9.0	.2	2.2
5 TO 9 EMPLOYEES E6	83	.6	5.1	.4	.9	3.5	11.9	8.0	19.8	.8	3.4
10 TO 19 EMPLOYEES E1	95	1.4	12.7	1.1	2.1	8.1	26.2	20.8	48.6	1.3	7.1
20 TO 49 EMPLOYEES	153	4.8	42.0	3.8	7.5	27.4	93.5	76.3	169.4	5.4	24.4
50 TO 99 EMPLOYEES	90	6.4	60.2	4.9	10.4	40.2	141.8	114.6	252.8	7.8	39.4
100 TO 249 EMPLOYEES	94	14.8	146.4	11.6	25.2	104.9	304.9	254.6	550.3	14.6	105.9
250 TO 499 EMPLOYEES	34	12.7	122.7	9.4	19.3	84.0	244.1	171.7	413.6	10.3	54.1
500 TO 999 EMPLOYEES	22	14.5	147.9	10.9	22.3	98.1	282.9	161.7	441.1	8.9	101.1
1,000 TO 2,499 EMPLOYEES	4	5.2	54.2	4.1	8.7	41.9	91.0	48.2	138.2	3.5	34.0
ESTABS. COVERED BY ADMIN. RECORD ¹ .	133	.5	4.2	.4	.8	2.4	11.2	7.6	18.8	.7	4.3
3462-- IRON AND STEEL FORGINGS											
ESTABLISHMENTS, TOTAL,	280	34.3	387.2	27.8	55.2	299.5	661.6	701.8	1 416.1	28.1	219.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	43	.1	.8	.1	.1	.6	1.5	1.6	3.0	.1	.4
5 TO 9 EMPLOYEES E3	23	.1	1.6	.1	.2	1.1	2.6	2.6	5.3	.1	.7
10 TO 19 EMPLOYEES E1	34	.5	4.9	.4	.7	3.3	11.2	11.0	22.0	1.1	2.3
20 TO 49 EMPLOYEES	50	1.7	16.5	1.4	3.0	11.6	30.2	35.0	65.1	1.1	7.5
50 TO 99 EMPLOYEES	45	3.1	33.1	2.5	5.2	24.5	70.3	77.2	147.0	3.3	20.6
100 TO 249 EMPLOYEES	56	9.2	98.0	7.5	14.9	75.1	180.0	195.6	371.3	9.5	64.5
250 TO 499 EMPLOYEES	16	5.7	64.7	4.7	9.2	51.3	106.1	117.7	224.6	2.8	29.8
500 TO 999 EMPLOYEES	7	5.6	58.3	4.5	8.9	45.6	101.7	116.6	215.3	3.0	36.7
1,000 TO 2,499 EMPLOYEES	3	8.1	109.4	6.5	13.0	86.4	156.2	204.7	362.4	7.1	54.6
2,500 EMPLOYEES OR MORE,	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	46	.1	1.4	.1	.2	1.0	2.1	2.3	4.4	.1	.7
3463-- NONFERROUS FORGINGS											
ESTABLISHMENTS, TOTAL,	46	5.8	63.7	4.5	9.0	45.4	104.0	118.9	222.5	7.0	60.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	7	(2)	.2	(2)	(2)	.2	.3	.4	.7	(2)	.1
5 TO 9 EMPLOYEES E3	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES E5	4	.1	.6	(0)	.1	.4	1.2	1.4	2.5	.1	.5
20 TO 49 EMPLOYEES E1	14	.5	4.3	.4	.7	2.8	8.2	9.4	17.3	1.2	2.7
50 TO 99 EMPLOYEES	6	.5	5.3	.4	.8	3.6	10.0	16.0	25.1	.5	7.4
100 TO 249 EMPLOYEES	8	1.7	17.2	1.4	3.0	12.4	36.9	46.4	56.4	2.8	9.5
250 TO 499 EMPLOYEES	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES	2	3.0	36.2	2.3	4.4	25.9	53.3	65.3	120.5	2.3	39.3
1,000 TO 2,499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	5	(2)	.2	(2)	(2)	.1	.2	.2	.4	(2)	.1
3465-- AUTOMOTIVE STAMPINGS											
ESTABLISHMENTS, TOTAL,	453	123.3	1 485.4	103.0	217.5	1 174.6	2 663.8	2 624.5	5 286.0	117.5	447.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	4	(2)	.1	(2)	(2)	.1	(2)	.1	.3	.4	(2)
5 TO 9 EMPLOYEES	12	.1	.8	.1	.1	.5	1.4	1.4	2.8	(0)	.2
10 TO 19 EMPLOYEES	73	1.1	9.3	.8	1.6	5.6	18.7	21.1	39.5	1.7	2.9
20 TO 49 EMPLOYEES	120	3.9	36.7	3.1	6.3	24.4	75.4	76.5	151.2	3.3	12.5
50 TO 99 EMPLOYEES	87	5.8	50.0	4.8	9.7	35.8	102.8	105.8	164.9	7.5	18.1
100 TO 249 EMPLOYEES	93	15.0	131.3	12.3	25.2	95.1	242.9	301.7	539.5	15.8	58.9
250 TO 499 EMPLOYEES	32	11.1	96.2	8.9	18.2	74.0	177.4	179.5	355.4	10.6	36.4
500 TO 999 EMPLOYEES	12	8.2	80.6	6.9	13.8	62.7	146.6	151.3	292.0	3.3	45.0
1,000 TO 2,499 EMPLOYEES	5	9.0	118.4	7.3	15.7	93.7	192.3	185.4	379.4	6.6	32.4
2,500 EMPLOYEES OR MORE,	19	69.2	962.1	58.7	126.9	782.7	1 706.1	1 601.6	3 319.0	66.1	240.4
3466-- CROWNS AND CLOSURES											
ESTABLISHMENTS, TOTAL,	53	8.1	74.1	6.7	13.4	55.1	154.7	180.9	311.5	8.3	62.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES	1	.1	.5	(2)	.1	.2	1.0	1.1	2.1	.1	.3
10 TO 19 EMPLOYEES	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES	15	.5	4.2	.4	.8	2.9	11.7	9.9	21.5	1.4	2.2
50 TO 99 EMPLOYEES	9	.7	4.9	.6	1.1	3.7	11.3	11.9	23.1	.6	4.8
100 TO 249 EMPLOYEES	10	3.4	30.3	2.8	5.9	22.3	61.5	66.4	84.7	2.9	25.7
250 TO 499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES	4	3.6	34.2	2.9	5.5	25.0	74.2	69.6	141.5	3.5	24.6
1,000 TO 2,499 EMPLOYEES	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(1,000)	(million dollars)	(1,000)	(millions)					
3469-- METAL STAMPINGS, NEC											
ESTABLISHMENTS, TOTAL.	2 354	91.6	777.7	74.0	146.1	552.4	1 233.3	1 460.8	2 673.9	75.7	379.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	632	1.2	11.2	1.2	2.0	8.6	20.6	18.7	39.5	1.3	4.6
5 TO 9 EMPLOYEES E5	335	2.2	20.7	1.8	3.7	15.0	37.1	29.9	66.9	2.1	6.6
10 TO 19 EMPLOYEES E1	407	5.8	52.3	4.6	9.1	36.0	95.5	60.2	154.7	5.8	13.3
20 TO 49 EMPLOYEES	513	16.0	138.5	13.0	26.0	95.7	247.1	200.3	444.7	15.9	45.2
50 TO 99 EMPLOYEES	264	18.4	154.0	14.9	29.7	110.0	267.1	199.6	465.3	15.7	55.0
100 TO 249 EMPLOYEES	143	21.6	179.8	17.5	35.1	127.9	339.1	310.4	644.2	17.3	93.3
250 TO 499 EMPLOYEES	45	15.5	129.9	12.4	24.8	94.3	264.7	221.0	479.2	10.9	93.0
500 TO 999 EMPLOYEES	14	10.9	91.3	8.5	15.9	65.1	189.5	193.0	379.3	6.7	68.6
1,000 TO 2,499 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	689	2.0	18.1	1.8	3.3	13.7	31.7	29.2	60.9	2.1	7.5
3471-- PLATING AND POLISHING											
ESTABLISHMENTS, TOTAL. E2	3 265	54.9	405.4	45.5	89.8	291.2	745.2	296.4	1 040.1	40.4	51.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	1 121	2.2	14.7	2.1	3.6	10.6	32.5	12.1	44.6	1.9	2.5
5 TO 9 EMPLOYEES E6	720	4.9	35.4	4.0	8.0	24.8	67.4	23.4	90.8	3.6	4.6
10 TO 19 EMPLOYEES E2	598	8.3	63.6	6.8	13.3	45.5	117.8	37.8	155.5	5.8	5.8
20 TO 49 EMPLOYEES E1	601	18.3	139.6	15.2	29.8	99.7	241.9	102.3	343.6	15.4	13.9
50 TO 99 EMPLOYEES	161	10.8	81.4	8.9	18.1	59.1	158.2	62.0	220.0	7.2	11.4
100 TO 249 EMPLOYEES E1	56	7.7	52.8	6.1	12.2	37.8	95.9	45.3	140.3	4.5	10.2
250 TO 499 EMPLOYEES E1	8	2.7	18.0	2.3	4.7	13.7	31.6	13.5	45.3	2.0	3.3
ESTABS. COVERED BY ADMIN. RECORD ¹ .	1 519	5.9	37.8	5.2	9.6	27.2	74.6	28.9	103.5	4.1	6.0
3479-- METAL COATING AND ALLIED SERVICES											
ESTABLISHMENTS, TOTAL. E1	1 497	27.6	221.1	22.5	43.5	155.9	379.1	328.6	701.8	24.0	64.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	576	1.0	7.6	1.0	1.6	5.3	-7.0	32.9	25.9	1.2	2.2
5 TO 9 EMPLOYEES E6	279	1.9	15.1	1.5	3.0	10.3	26.7	14.6	41.2	1.6	2.8
10 TO 19 EMPLOYEES E1	270	3.7	29.1	3.0	5.9	19.7	52.3	25.4	77.1	2.2	4.7
20 TO 49 EMPLOYEES	254	7.9	62.6	6.4	12.3	43.3	107.6	76.6	183.2	7.7	15.0
50 TO 99 EMPLOYEES E1	68	4.6	36.8	3.8	7.5	26.1	67.9	53.0	119.9	3.0	11.7
100 TO 249 EMPLOYEES	45	6.3	55.2	5.0	10.2	39.8	98.6	100.7	197.1	7.6	21.7
250 TO 499 EMPLOYEES	4	2.1	14.8	1.7	2.9	11.4	33.0	25.4	57.5	.9	6.7
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	660	1.9	14.4	1.7	3.1	10.0	27.3	17.2	44.5	1.7	3.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent
E2--20 to 29 percent

E3--30 to 39 percent
E4--40 to 49 percent

E5--50 to 59 percent
E6--60 to 69 percent

E7--70 to 79 percent
E8--80 to 89 percent

E9--90 to 99 percent
E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (2) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

¹Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new
			Number	Payroll	Number	Man-hours	Wages				
		(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3451	SCREW MACHINE PRODUCTS										
	ENTIRE INDUSTRY	1 803	40.4	356.4	33.1	68.1	257.2	647.3	423.3	1 061.7	33.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	1 737	37.0	324.1	30.3	62.0	233.3	585.7	386.8	964.2	30.4
34511	AUTOMOTIVE SCREW MACHINE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	152	7.6	73.9	6.3	13.3	54.8	137.8	118.3	254.7	9.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	95	3.5	34.5	2.9	6.2	25.5	65.5	62.4	127.2	5.3
34512	OTHER SCREW MACHINE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	675	24.9	219.0	20.2	41.7	157.2	386.6	234.9	615.1	15.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	570	20.9	183.5	17.0	35.0	131.6	320.2	197.0	511.8	13.0

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3452	BOLTS, NUTS, RIVETS, AND WASHERS										
	ENTIRE INDUSTRY	679	60.6	594.6	46.4	97.3	410.6	1 204.9	859.4	2 043.1	55.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	625	53.0	519.4	40.6	85.5	358.4	1 046.5	772.2	1 801.9	49.8
34524	EXTERNALLY THREADED FASTENERS, EXCEPT AIRCRAFT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	244	32.4	315.8	24.9	52.5	220.8	630.5	485.3	1 102.2	26.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	188	21.4	203.1	16.4	34.9	141.1	418.0	338.0	745.9	18.2
34525	INTERNALLY THREADED FASTENERS, EXCEPT AIRCRAFT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	44	6.0	61.1	4.7	9.9	44.1	145.0	91.4	232.4	7.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	31	3.1	33.7	2.5	5.4	24.8	84.1	59.7	141.2	5.3
34526	NONTHREADED FASTENERS, EXCEPT AIRCRAFT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	81	10.9	105.9	8.4	17.6	75.0	207.6	146.6	349.9	9.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	59	6.1	55.8	4.8	10.2	39.5	108.3	83.5	191.0	6.8
34527	AIRCRAFT-AEROSPACE FASTENERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	32	5.0	52.9	3.5	7.2	30.3	105.8	44.2	149.8	1.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	21	3.8	41.3	2.7	5.3	22.9	76.6	32.6	110.6	1.5
34528	OTHER FORMED FASTENERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	43	2.5	25.0	2.0	4.3	17.9	48.3	49.3	96.6	3.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	32	1.7	18.3	1.3	2.9	12.8	34.7	40.2	74.0	3.2
3462	IRON AND STEEL FORGINGS										
	ENTIRE INDUSTRY	280	34.3	387.2	27.8	55.2	299.5	661.8	761.8	1 416.1	28.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	259	26.6	302.3	21.9	44.0	236.2	522.6	616.0	1 134.4	25.2
34621	DROP, UPSET AND PRESS STEEL FORGINGS (CLOSED DIE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	139	27.9	306.8	22.6	44.2	237.7	516.2	582.4	1 091.6	19.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	124	20.9	228.1	17.3	34.1	179.6	386.6	441.0	824.6	17.3
34629	OPEN-DIE OR SMITH FORGINGS FROM PURCHASED MAT'L. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	55	5.5	73.2	4.4	9.7	56.3	133.2	168.1	300.9	7.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	46	3.1	34.0	2.4	5.3	24.6	69.4	78.5	146.4	3.7
3463	NONFERROUS FORGINGS										
	ENTIRE INDUSTRY	46	5.8	63.7	4.5	9.0	45.4	104.0	118.9	222.5	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	40	4.5	48.9	3.6	7.4	36.5	77.9	93.0	170.4	5.6
34631	ALUMINUM, ALUM.-BASE ALLOY FORGINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	15	3.4	37.7	2.8	5.6	28.3	58.4	64.6	124.4	2.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34632	OTHER NONFERROUS FORGINGS (EXCEPT ALUMINUM) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	15	2.2	24.0	1.5	3.1	15.7	42.1	51.9	92.4	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	10	.9	9.0	.7	1.5	6.4	17.8	24.0	39.9	2.7
3465	AUTOMOTIVE STAMPINGS										
	ENTIRE INDUSTRY	453	123.3	1 485.4	103.0	217.5	1 174.6	2 663.8	2 624.5	5 286.0	117.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	356	109.8	1 344.8	92.2	194.7	1 071.4	2 424.1	2 392.9	4 819.8	109.5
3466	CROWNS AND CLOSURES										
	ENTIRE INDUSTRY	53	8.1	74.1	6.7	13.4	55.1	159.7	180.9	336.5	8.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	47	6.7	60.3	5.6	11.0	45.6	134.0	133.6	256.5	7.3
34661	METAL COMMERCIAL AND HOME CANNING CLOSURES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	43	7.1	63.2	5.8	11.4	47.6	136.2	149.5	283.7	6.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	39	6.0	52.7	5.0	9.9	40.8	116.5	113.4	221.6	6.1
34662	METAL CROWNS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	9	1.1	10.5	.9	1.9	7.4	24.0	30.7	52.8	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3469	METAL STAMPINGS, NEC										
	ENTIRE INDUSTRY	2 354	91.6	777.7	74.0	146.1	552.4	1 460.8	1 233.3	2 673.9	75.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	2 072	68.6	575.5	55.8	109.5	409.8	1 095.6	893.8	1 987.4	57.5
34692	JOB STAMPINGS, EXCEPT AUTOMOTIVE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	765	43.8	384.9	35.7	72.1	275.6	703.6	573.6	1 292.3	31.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	554	28.7	251.0	23.7	47.7	180.8	461.2	376.6	855.3	19.6
34694	STAMPED, SPUN UTENSILS, COOKING, KITCHEN, ALUM. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	31	6.6	46.6	5.1	8.7	33.0	105.9	109.3	211.1	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	20	2.9	20.8	2.4	4.8	15.7	54.6	62.3	113.9	2.5
34695	STAMPED, SPUN UTEN., COOKING, KITCHEN, NOT ALUM. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	38	7.0	58.3	5.3	10.5	38.9	134.1	125.2	254.2	4.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	20	2.1	16.4	1.6	3.3	10.7	38.8	32.6	71.1	1.0
34699	OTH. STAMPED, PRESSED METAL END PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	338	21.5	179.4	17.2	34.5	124.7	330.2	276.3	615.2	17.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	244	14.9	125.4	11.9	23.7	86.4	236.0	180.5	426.1	12.6
3471	PLATING AND POLISHING										
	ENTIRE INDUSTRY	3 265	54.9	405.4	45.5	89.8	291.2	745.2	296.4	1 040.1	40.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	3 119	50.2	369.8	41.6	82.0	266.0	672.6	273.0	944.8	37.8
3479	METAL COATING AND ALLIED SERVICES										
	ENTIRE INDUSTRY	1 496	27.5	220.3	22.4	43.4	155.2	374.9	315.2	685.5	23.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	1 394	22.6	181.1	18.3	35.3	126.3	298.3	265.4	560.3	20.7

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3451	Screw machine products.....1972..	1,061.7	972.4	44.7	44.6	96	1,083.1	972.4	110.7	90
	1967..	1,021.5	933.6	40.5	47.4	96	1,036.1	933.6	102.5	90
3452	Bolts, nuts, rivets, and washers.....1972..	2,043.1	1,802.6	136.8	103.7	93	1,988.4	1,802.6	185.8	91
	1967..	1,643.9	1,449.5	97.2	97.2	94	1,613.1	1,449.5	163.6	90
3462	Iron and steel forgings.....1972..	1,416.1	1,259.3	115.9	40.9	92	1,838.7	1,259.3	579.4	68
	1967..	1,261.6	1,110.0	125.0	26.6	90	1,550.7	1,110.0	440.7	72
3463	Nonferrous forgings.....1972..	222.5	175.7	34.2	12.6	84	280.8	175.7	105.1	63
	1967..	333.1	187.3	129.7	16.1	67	348.1	187.3	160.8	54
3465	Automotive stampings.....1972..	5,286.0	4,753.5	406.5	126.0	92	5,155.8	4,753.5	402.3	92
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3466	Crowns and closures.....1972..	336.5	283.3	37.8	15.4	88	339.4	283.3	56.1	83
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3469	Metal stampings, n.e.c.....1972..	2,673.9	2,191.4	352.8	129.7	86	2,584.8	2,191.4	393.4	85
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3471	Plating and polishing.....1972..	1,040.1	¹ 1,008.9	19.4	11.8	(¹)	(²)	1,008.9	(²)	(²)
	1967..	791.1	¹ 756.1	26.6	8.4	(¹)	(²)	756.1	(²)	(²)
3479	Metal coating and allied services.....1972..	701.8	¹ 637.1	52.9	11.8	(¹)	(³)	637.1	(³)	(³)
	1967..	471.3	¹ 404.3	58.3	8.7	(¹)	(³)	404.3	(³)	(³)

(NA) Not available.

¹Specialization ratio is not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

²Data on receipts for plating and polishing are not available for establishments classified outside industry 3471.

³Data on receipts for metal coating and engraving, etc., are not available for establishments classified outside industry 3479.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Screw machine products (SIC 3451)	Bolts, nuts, rivets, and washers (SIC 3452)	Iron and steel forgings (SIC 3462)	Nonferrous forgings (SIC 3463)	Auto-motive stampings (SIC 3465)	Crowns and closures (SIC 3466)	Metal stampings, n.e.c. (SIC 3469)	Plating and polishing (SIC 3471)	Metal coating and allied services (SIC 3479)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	1,068.6	2,058.6	1,416.1	222.5	5,286.0	343.5	2,673.9	1,040.1	701.8	1,630.1
3451-	Screw machine products.....	1,083.1	972.4	47.2	-	-	.3	-	3.1	-	-	60.1
34511	Automotive screw machine products.....	245.7	227.9	(5-10)	-	-	-	-	-	-	-	(5-10)
34512	Other screw machine products...	638.7	563.1	38.6	-	-	.3	-	3.1	-	-	33.6
34510	Screw machine products, n.s.k..	198.7	181.4	(under 2)	-	-	-	-	-	-	-	(10-20)
3452-	Bolts, nuts, rivets, and washers.	1,988.4	28.5	1,802.6	(under 2)	-	(2-5)	-	3.2	-	-	149.8
34524	Externally threaded fasteners, except aircraft.....	979.5	14.1	871.0	(under 2)	-	(under 2)	-	(under 2)	-	-	91.3
34525	Internally threaded fasteners, except aircraft.....	248.5	3.5	232.9	-	-	(under 2)	-	-	-	-	10.4
34526	Nonthreaded fasteners, except aircraft.....	353.2	2.7	323.0	-	-	-	-	(under 2)	-	-	27.0
34527	Aircraft-aerospace fasteners...	157.8	(under 2)	155.7	-	-	-	-	-	-	-	(under 2)
34528	Other formed fasteners.....	140.3	(5-10)	123.3	-	-	-	-	(under 2)	-	-	10.3
34520	Bolts, nuts, rivets, and washers, n.s.k.....	109.1	(under 2)	96.7	-	-	-	-	(under 2)	-	-	(10-20)
3462-	Iron and steel forgings.....	1,838.7	-	-	1,259.3	(20-50)	-	-	(under 2)	-	-	551.1
34621	Drop, upset, and press steel forgings (closed die).....	1,275.1	-	-	996.1	(20-50)	-	-	-	-	-	(200-500)
34629	Open-die or smith forgings											
33129	(open frame, hammer or press) produced from purchased purchased materials.....	524.6	-	-	241.2	(2-5)	-	-	-	-	-	(200-500)
34620	Iron and steel forgings, n.s.k..	39.0	-	-	22.0	-	-	-	(under 2)	-	-	(10-20)
3463-	Nonferrous forgings.....	280.8	-	-	36.5	175.7	(under 2)	-	(2-5)	-	-	64.7
34631	Aluminum and aluminum-base alloy forgings.....	136.7	-	-	(2-5)	110.0	-	-	(under 2)	-	-	(20-50)
34632	Other nonferrous forgings, except aluminum.....	139.1	-	-	(20-50)	61.5	-	-	(2-5)	-	-	42.4
34630	Nonferrous forgings, n.s.k.....	5.0	-	-	-	4.3	(under 2)	-	-	-	-	(under 2)
3465-	Automotive stampings.....	5,155.8	(under 2)	(under 2)	(5-10)	-	4,753.5	-	64.7	-	-	329.9
34650	Job stampings, automotive.....	5,155.8	(under 2)	(under 2)	(5-10)	-	4,753.5	-	64.7	-	-	329.9
3466-	Crowns and closures.....	339.4	-	-	-	-	-	283.3	(under 2)	-	-	(50-100)
34661	Metal commercial closures and metal home canning closures, except crowns.....	274.6	-	-	-	-	-	247.8	(under 2)	-	-	(20-50)
34662	Metal crowns.....	64.8	-	-	-	-	-	35.5	(under 2)	-	-	(20-50)
3469-	Metal stampings, n.e.c.....	2,584.8	(under 2)	(2-5)	-	-	84.6	(under 2)	2,191.4	-	(2-5)	301.5
34692	Job stampings, except automotive.....	1,283.1	(under 2)	(under 2)	-	-	(50-100)	(under 2)	1,057.9	-	(under 2)	143.0
34694	Stamped and spun utensels, cooking and kitchen, aluminum.	205.0	-	-	-	-	-	(under 2)	184.9	-	-	(10-20)
34695	Stamped and spun utensels, cooking and kitchen, except aluminum.....	184.4	-	-	-	-	(under 2)	-	158.8	-	-	(20-50)
34699	Other stamped and pressed metal end products, including vitreous enameled products...	588.4	-	(under 2)	-	-	4.4	(under 2)	510.6	-	(under 2)	70.3
34690	Metal stampings, n.s.k.....	323.9	(under 2)	-	-	-	1.6	-	279.2	-	(under 2)	42.8
3471-	Plating and polishing.....	(1)	-	-	-	-	-	-	-	1,008.9	-	-
34710	Electroplating, plating, and polishing.....	(1)	-	-	-	-	-	-	-	1,008.9	-	-
3479-	Metal coating and allied services.....	(1)	-	-	-	-	-	-	-	-	637.1	-
34790	Coating, engraving, and allied services, n.e.c.....	(1)	-	-	-	-	-	-	-	-	637.1	-
	Other product shipments by 4-digit product group:											
2396	Automotive, apparel trimmings..	(X)	-	-	-	-	(20-50)	-	-	-	-	(X)
2514	Metal household furniture.....	(X)	-	-	-	-	(2-5)	-	(under 2)	-	-	(X)
2522	Metal office furniture.....	(X)	-	(2-5)	-	-	-	-	(under 2)	-	-	(X)
2542	Metal partitions and fixtures..	(X)	-	(2-5)	-	-	-	-	(under 2)	-	-	(X)
2655	Fiber cans, drums, and similar products.....	(X)	-	-	-	-	-	-	(10-20)	-	-	(X)
3079	Miscellaneous plastics products	(X)	-	(5-10)	-	-	(under 2)	6.3	8.3	(under 2)	(5-10)	(X)
3317	Steel pipe and tubes.....	(X)	-	-	-	-	(2-5)	-	(2-5)	-	-	(X)
3398	Metal heat treating.....	(X)	(under 2)	-	-	-	-	-	-	2.8	3.7	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Screw machine products (SIC 3451)	Bolts, nuts, rivets, and washers (SIC 3452)	Iron and steel forgings (SIC 3462)	Nonferrous forgings (SIC 3463)	Auto-motive stampings (SIC 3465)	Crowns and closures (SIC 3466)	Metal stampings, n.e.c. (SIC 3469)	Plating and polishing (SIC 3471)	Metal coating and allied services (SIC 3479)	Other industries
	Shipments and miscellaneous receipts--Continued											
	Other product shipments by 4-digit product group--Con.											
3412	Metal barrels, drums, pails....	(X)	-	-	-	-	(10-20)	-	(5-10)	-	-	(X)
3423	Hand and edge tools, n.e.c.....	(X)	(under 2)	(under 2)	(under 2)	-	(under 2)	-	(5-10)	-	-	(X)
3429	Hardware, n.e.c.....	(X)	(under 2)	(2-5)	-	-	(5-10)	-	6.7	-	-	(X)
3431	Metal sanitary ware.....	(X)	-	-	-	-	(5-10)	-	8.3	-	-	(X)
3441	Fabricated structural metal....	(X)	-	(2-5)	(2-5)	-	(under 2)	-	(5-10)	-	-	(X)
3443	Fabricated platework (boiler shops).....	(X)	(under 2)	-	(under 2)	-	(under 2)	-	3.5	-	(under 2)	(X)
3444	Sheet metalwork.....	(X)	-	(2-5)	-	-	(under 2)	-	5.7	-	(under 2)	(X)
3446	Architectural metalwork.....	(X)	-	-	-	-	(under 2)	-	2.1	-	-	(X)
3449	Miscellaneous metalwork.....	(X)	(under 2)	(under 2)	-	-	-	-	(2-5)	-	-	(X)
3484	Small arms.....	(X)	-	-	-	-	-	-	(2-5)	-	-	(X)
3489	Ordnance, accessories, n.e.c....	(X)	-	-	-	-	(2-5)	-	(under 2)	-	-	(X)
3493	Steel springs, except wire.....	(X)	-	-	(5-10)	-	-	-	(2-5)	-	-	(X)
3494	Valve and pipe fittings.....	(X)	(under 2)	1.6	(20-50)	-	(under 2)	-	(under 2)	-	-	(X)
3495	Wire springs.....	(X)	(under 2)	-	-	-	(under 2)	-	2.4	-	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	2.1	-	-	(under 2)	-	3.3	(under 2)	(under 2)	(X)
3497	Metal foil and leaf.....	(X)	-	-	-	-	-	10.4	-	-	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	3.8	-	-	(2-5)	-	21.1	(under 2)	(10-20)	(X)
3523	Farm machinery and equipment...	(X)	(under 2)	(under 2)	(5-10)	-	-	-	(under 2)	-	-	(X)
3524	Lawn and garden equipment.....	(X)	-	-	-	-	(2-5)	-	(under 2)	-	-	(X)
3532	Mining machinery.....	(X)	-	(under 2)	-	-	-	-	(2-5)	-	-	(X)
3541	Machine tools, metal-cutting types.....	(X)	-	-	(under 2)	-	(under 2)	-	(2-5)	-	-	(X)
3542	Machine tools, metal-forming types.....	(X)	-	(5-10)	-	-	(under 2)	-	(under 2)	-	-	(X)
3544	Special dies, tool, jigs, and fixtures.....	(X)	1.8	(under 2)	7.6	6.5	187.2	.5	39.1	(under 2)	.2	(X)
3546	Power-driven handtools.....	(X)	(under 2)	6.0	-	-	-	-	-	-	-	(X)
3551	Food products machinery.....	(X)	-	-	-	-	-	8.2	(10-20)	-	-	(X)
3562	Ball and roller bearings.....	(X)	(under 2)	(2-5)	-	-	-	-	(under 2)	-	-	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	2.8	(under 2)	(under 2)	-	(under 2)	-	2.3	(under 2)	(under 2)	(X)
3623	Welding apparatus, electric....	(X)	(under 2)	6.7	-	-	(under 2)	-	-	-	-	(X)
3634	Electric housewares and fans...	(X)	-	-	-	-	(under 2)	-	33.1	-	-	(X)
3644	Noncurrent-carrying wiring devices.....	(X)	-	(2-5)	-	-	(under 2)	-	(under 2)	-	-	(X)
3661	Telephone and telegraph apparatus.....	(X)	-	-	-	-	-	-	(2-5)	-	-	(X)
3679	Electronic components, n.e.c....	(X)	-	-	-	-	-	-	(2-5)	-	(under 2)	(X)
3699	Electric equipment and supplies, n.e.c.....	(X)	-	-	-	-	-	-	(5-10)	-	-	(X)
3713	Truck and bus bodies.....	(X)	-	-	-	-	(2-5)	-	(under 2)	-	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	(under 2)	(10-20)	-	8.7	-	(under 2)	(under 2)	(5-10)	(X)
3728	Aircraft equipment, n.e.c.....	(X)	(under 2)	(2-5)	-	-	-	-	-	-	-	(X)
3799	Transportation equipment,n.e.c.	(X)	-	-	-	-	(under 2)	-	(2-5)	-	-	(X)
3963	Buttons.....	(X)	-	-	-	-	-	-	(5-10)	-	-	(X)
3964	Needles, pins, and fasteners...	(X)	-	(2-5)	-	-	(10-20)	-	4.7	-	-	(X)
	Miscellaneous receipts.....	(X)	44.6	103.7	40.9	12.6	126.0	15.4	129.7	11.8	11.8	(X)
93000	Contract work.....	(X)	15.1	4.5	(2-5)	(2-5)	6.2	-	33.9	(NA)	(NA)	(X)
99989	Resales.....	(X)	12.4	79.0	(20-50)	(under 2)	19.9	9.7	70.7	9.7	9.0	(X)
99980	Other.....	(X)	17.1	20.2	14.9	9.9	99.9	5.7	25.1	2.1	2.8	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries							
	Listing of other industries with over \$2 million shipments of primary products			Listing of other industries with over \$2 million shipments of primary products--Continued								
3451	3341 Secondary nonferrous metals.....	(5-10)	3452	3312 Blast furnaces and steel mills.....	104.7							
	3351 Copper rolling and drawing.....	(5-10)		3432 Plumbing fittings and brass goods.....	(2-5)							
	3494 Valves and pipe fittings.....	(5-10)		3441 Fabricated structural metal.....	(2-5)							
				3449 Miscellaneous metalwork.....	(2-5)							
	3519 Internal combustion engines, n.e.c.....	(5-10)		3499 Fabricated metal products, n.e.c.....	(2-5)							
	3586 Measuring and dispensing pumps.....	(2-5)		3523 Farm machinery and equipment.....	(5-10)							
	3599 Machinery, except electrical, n.e.c.....	(2-5)		3644 Noncurrent-carrying wiring devices.....	(5-10)							
	3714 Motor vehicle parts and accessories.....	(5-10)		3714 Motor vehicle parts and accessories.....	(20-50)							

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of primary products--Continued			Listing of other industries with over \$2 million shipments of primary products--Continued	
3462	3312 Blast furnaces and steel mills.....	(20-50)	3469	3353 Aluminum sheet, plate, and foil.....	(2-5)
	3325 Steel foundries, n.e.c.....	(2-5)		3356 Nonferrous rolling and drawing, n.e.c.....	(2-5)
	3423 Hand and edge tools, n.e.c.....	(10-20)		3411 Metal cans.....	(5-10)
	3443 Fabricated platework (boiler shops).....	(5-10)		3429 Hardware, n.e.c.....	10.1
	3494 Valves and pipe fittings.....	(2-5)		3441 Fabricated structural metal.....	3.6
	3523 Farm machinery and equipment.....	(10-20)		3442 Metal doors, sash, and trim.....	7.4
	3531 Construction machinery.....	(2-5)		3443 Fabricated platework (boiler shops).....	2.1
	3547 Rolling mill machinery.....	(5-10)		3444 Sheet metalwork.....	8.3
	3592 Carburetors, pistons, rings, valves.....	(2-5)		3483 Ammunition, except for small arms, n.e.c.....	(2-5)
	3599 Machinery, except electrical, n.e.c.....	(10-20)		3494 Valves and pipe fittings.....	(2-5)
	3644 Noncurrent-carrying wiring devices.....	(2-5)		3495 Wire springs.....	5.3
	3711 Motor vehicles and car bodies.....	(20-50)		3496 Miscellaneous fabricated wire products.....	13.2
	3714 Motor vehicle parts and accessories.....	(100-200)		3499 Fabricated metal products, n.e.c.....	12.2
	3743 Railroad equipment.....	(5-10)		3531 Construction machinery.....	(2-5)
3463	3351 Copper rolling and drawing.....	32.6		3544 Special dies, tools, jigs, and fixtures.....	10.0
	3353 Aluminum sheet, plate, and foil.....	(2-5)		3573 Electronic computing equipment.....	(2-5)
	3354 Aluminum extruded products.....	(10-20)		3599 Machinery, except electrical, n.e.c.....	2.7
	3494 Valves and pipe fittings.....	(10-20)		3624 Carbon and graphite products.....	(2-5)
3465	3312 Blast furnaces and steel mills.....	(20-50)		3631 Household cooking equipment.....	13.3
	3351 Copper rolling and drawing.....	(5-10)		3633 Household laundry equipment.....	(2-5)
	3353 Aluminum sheet, plate, and foil.....	(2-5)		3634 Electric housewares and fans.....	(20-50)
	3441 Fabricated structural metal.....	(5-10)		3648 Lighting equipment, n.e.c.....	2.2
	3483 Ammunition, except for small arms, n.e.c.....	(2-5)		3662 Radio and TV communication equipment.....	(2-5)
	3544 Special dies, tools, jigs, and fixtures.....	6.3		3714 Motor vehicle parts and accessories.....	(10-20)
	3711 Motor vehicles and car bodies.....	(200-500)		3949 Sporting and athletic goods, n.e.c.....	(2-5)
	3714 Motor vehicle parts and accessories.....	51.8		3993 Signs and advertising displays.....	(2-5)
3466	2022 Cheese, natural and processed.....	(2-5)		3999 Manufacturing industries, n.e.c.....	(2-5)
	3079 Miscellaneous plastics products.....	(10-20)	3471	3354 Aluminum extruded products.....	3.9
	3293 Gaskets, packing and sealing devices.....	(2-5)		3356 Nonferrous rolling and drawing, n.e.c.....	10.4
	3411 Metal cans.....	22.7		3679 Electronic components, n.e.c.....	(5-10)
3469	2514 Metal household furniture.....	(2-5)	3479	2752 Commercial printing, lithographic.....	(2-5)
	2655 Fiber cans, drums and similar products.....	(5-10)		3079 Miscellaneous plastics products.....	(5-10)
	2819 Industrial inorganic chemicals, n.e.c.....	(5-10)		3261 Vitreous plumbing fixtures.....	(5-10)
	3069 Fabricated rubber products, n.e.c.....	4.5		3324 Steel investment foundries.....	(5-10)
	3312 Blast furnaces and steel mills.....	(10-20)		3353 Aluminum sheet, plate, and foil.....	(5-10)
	3315 Steel wire and related products.....	(2-5)		3444 Steel metalwork.....	10.2
	3316 Cold finishing of steel shapes.....	(5-10)		3622 Industrial controls.....	(20-50)
				3961 Costume jewelry.....	(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

¹Data on receipts for (1) plating and polishing; and (2) metal coating and allied services are not available for establishments classified outside industries 3471 and 3479, respectively.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
3451- --	SCREW MACHINE PRODUCTS, TOTAL.....	1,083.1	1,036.1
34511 12	Nonstandard automotive items made from rod, bar, or tube stock on automatic or hand-operated screw machines (automotive screw machine products).....	245.7	233.2
34512 --	Other Screw Machine Products.....	638.7	661.1
	Nonstandard items made from rod, bar, or tube stock on automatic or hand-operated screw machines (reported on basis of end product in which to be incorporated):		
34512 22	Aircraft and ordnance.....	77.3	176.0
34512 42	Household appliances, including radio and television.....	90.8	69.3
34512 62	Machinery.....	140.5	93.9
34512 98	All other end uses, except automotive.....	330.1	321.9
34510 00	Screw machine products, n.s.k., for companies with 10 employees or more. (See note.).....	129.9	112.5
34510 02	Screw machine products, n.s.k., for companies with less than 10 employees. (See note.).....	68.8	29.6

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972—total product shipments including interplant transfers		
		Quantity		Value (million dollars)
		Million pieces ¹	Million pounds	
3452	BOLTS, NUTS, RIVETS, AND WASHERS, TOTAL.....	(X)	(X)	1,988.4
34524 --	Externally Threaded Fasteners, Except Aircraft ²	(X)	(X)	979.5
	Bolts (except nonmetallic):			
34524 11	Mine roof bolts.....	(NA)	456.2	65.3
34524 12	Hex bolts, including heavy, tap and joint, excluding high strength structural.....	(NA)	311.3	97.5
34524 13	Square bolts, including fitting up, derrick, joint, and tank... Round bolts, including buttonhead, countersunk, fin neck, ribbed neck, square neck, elevator step, and shearknife.....	(NA)	42.7	13.0
34524 14		(NA)		
34524 15	Plow numbers 3, 4, 6, 7 and track.....	(NA)	127.3	44.9
34524 16	High-strength structural bolts.....	(NA)	50.7	10.9
34524 17	Bent bolts, including eye, hook, J, and U bolts.....	562.6	87.7	28.6
		(NA)	47.7	12.6
34524 21	Studs, including continuous thread, double end and tap end, and thread rods and wire (except nonmetallic).....	(NA)	140.5	56.0
	Screws (except nonmetallic):			
34424 32	Flanged screws, all types, except self-locking.....	(NA)	5.7	2.1
34524 33	Self-locking screws, all types, including flanged.....	(NA)	(NA)	9.5
	Cap, including hex, flat, fillister, round, and socket:			
34524 34	1/4 inch diameter and above.....	(NA)	266.7	102.6
34524 35	Under 1/4 inch diameter.....	(NA)	50.6	21.8
34524 36	Set, including spline, hex, slotted, and square.....	(NA)	42.5	21.6
34524 37	Machine, including binding, fillister, flat, hex, oval, round, pan and truss, and hex washer head.....	(NA)	(NA)	123.7
34524 38	Wood, including flat, oval, and round.....	(NA)	(NA)	20.4
	Tapping, including fillister, flat, hex, oval, pan and truss:			
34524 41	Thread forming.....	(NA)	(NA)	113.0
34524 42	Thread cutting.....	5,520.0	37.7	27.6
34524 43	Self-drilling.....	3,707.6	22.3	35.7
34524 44	Thread-rolling.....	(NA)	49.0	26.8
34524 51	Lag, including square and hex.....	(NA)	12.0	4.0
34524 69	Other externally threaded metal fasteners, not specified above...	(NA)	190.2	95.8
34524 71	Nonmetallic externally threaded fasteners.....	323.3	1.1	1.7
34524 00	Externally threaded fasteners, except aircraft, n.s.k.....	(X)	(X)	44.3
34525 --	Internally Threaded Fasteners, Except Aircraft ²	(X)	(X)	248.5
	Nuts (except nonmetallic):			
34525 01	Flanged nuts, all types, except locknuts.....	(NA)	32.6	12.2
34525 02	Hex, including double chamfered, washer face, flat, jam slotted, thick, castle, heavy, machine, and flange.....	(NA)	149.7	85.2
34525 03	Square, including flat, washer, crowned, heavy, track sleeve, and machine.....	(NA)	13.3	4.1
	Locknuts, including flanged:			
34525 11	Prevailing torque.....	(NA)	73.6	72.7
34525 12	Free spinning.....	(NA)	10.1	7.2
34525 21	Sheet metal.....	(NA)	(NA)	4.1
34525 22	Weld nuts.....	(NA)	39.4	15.9
34525 23	Wing nuts, including types A, B, C, and D.....	(NA)	1.2	1.8
34525 24	Cage, anchor and nut retainers.....	(NA)	(NA)	2.3
34525 39	Other metal nuts, not specified above.....	2,189.5	60.3	42.6
34525 41	Nonmetallic nuts.....	(X)	(X)	.4
34525 00	Internally threaded fasteners, except aircraft, n.s.k.....	(X)	(X)	
34526 --	Nonthreaded Fasteners, Except Aircraft ²	(X)	(X)	353.2
	Rivets, (except nonmetallic):			
34526 01	Solid, under 1/2-inch diameter.....	(NA)	57.0	26.6
34526 02	Solid, 1/2-inch diameter and over.....	(NA)	34.4	8.2
34526 03	Tubular, and split, including rivet caps.....	(NA)	48.0	58.8
34526 04	Blind.....	(NA)	(NA)	23.3
34526 21	Pins, machine type, including dowel, straight, grooved and taper, clevis type, cotter type, and roll spring type (except nonmetallic). Washers (except nonmetallic):	(NA)	57.0	29.2
34526 31	Plain, bevelled, and other nonlocking.....	(NA)	268.5	77.5
34526 32	Lock and spring.....	7,758.2	51.6	27.7
34526 49	Other nonthreaded metal fasteners, not specified above.....	(NA)	218.0	82.9
34526 51	Nonmetallic nonthreaded products.....	(NA)	1.4	3.2
34526 00	Nonthreaded fasteners, except aircraft, n.s.k.....	(X)	(X)	15.8
34527 --	Aircraft-Aerospace Fasteners ²	(X)	(X)	157.8
	Externally threaded:			
	Bolts:			
34527 01	Under 161 KSI tensile.....	211.7	3.8	14.9
34527 02	161-220 KSI tensile.....	444.6	3.2	33.0
34527 03	Over 220 KSI tensile.....	(NA)	.3	5.8
34527 11	Screws, all types.....	(D)	(D)	(D)
34527 21	Studs, all types.....	36.2	.9	2.6

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972—total product shipments including interplant transfers		
		Quantity		Value (million dollars)
		Million pieces ¹	Million pounds	
3452- --	BOLTS, NUTS, RIVETS, AND WASHERS--Continued			
34527 --	Aircraft-Aerospace Fasteners--Continued			
	Internally threaded:			
34527 31	Flanged nuts, all types.....	(D)	(D)	(D)
34527 32	Hex square nuts, all types.....	240.7	1.7	6.0
	Locknuts:			
34527 41	Prevailing torque.....	94.4	36.3	30.3
34527 42	Free spinning.....	(NA)	(NA)	.6
34527 51	Sheet metal.....	(D)	(D)	(D)
	Nonthreaded:			
34527 61	Washers, all types.....	(NA)	(NA)	2.3
34527 62	Rivets, all types.....	(NA)	(NA)	23.2
34527 63	Pins, all types.....	(NA)	4.6	10.2
34527 00	Aircraft-aerospace fasteners, n.s.k.....	(X)	(X)	7.4
34528 --	Other Formed Parts.....	(X)	(X)	140.3
34528 11	Automotive.....	(NA)	137.0	65.9
34528 21	Household appliances, including radio and television.....	(NA)	7.2	7.9
34528 31	Aircraft.....	(NA)	(NA)	11.5
34528 98	All other, including ordnance.....	(NA)	(NA)	48.6
34528 00	Other formed fasteners, n.s.k.....	(X)	(X)	6.4
34520 00	Bolts, nuts, rivets, and washers, n.s.k., for establishments with 10 employees or more. (See note.).....	(X)	(X)	87.4
34520 02	Bolts, nuts, rivets, and washers, n.s.k., for establishments with less than 10 employees. (See note.).....	(X)	(X)	21.7
		Unit of measure	1967—total product shipments including interplant transfers	
			Quantity	Value (million dollars)
3452- --	BOLTS, NUTS, RIVETS, AND WASHERS, TOTAL.....		(X)	1,613.1
34521 --	Bolts, Nuts, and Other Standard Industrial Fasteners.....		(X)	983.9
	Bolts, threaded rods, lag screws, and studs (including nuts), when nuts and bolts are sold as a unit:			
34521 01	Mine roof bolts.....	Million lb.....	506.4	87.2
34521 02	Aircraft bolts.....	..do.....	6.3	27.5
34521 03	Standard hex, square, and 12-point bolts and screws.....	..do.....	404.2	107.3
34521 04	Standard round head bolts (carriage, elevator, step, plow, and track).....	..do.....	121.3	26.8
34521 05	Lag screws and bolts.....	..do.....	29.9	8.2
34521 07	Studs, threaded rods, and threaded wires.....	..do.....	116.7	33.7
	Nuts:			
34521 13	Standard nuts (hexagon, or square, regular, heavy, or jam, finished, semifinished or unfinished, including slotted or castle) (excluding sheet metal nuts).....	..do.....	160.0	70.1
	Locknuts (excluding sheet metal nuts):			
34521 15	Aircraft.....	..do.....	23.8	39.4
34521 17	Commercial (except aircraft).....	..do.....	33.7	19.8
34521 18	Sheet metal nuts, including push-on, J and U type slip-on cage, anchor, and locknuts, nut retainers, etc.....	..do.....	14.2	25.6
34521 19	Other nuts, including machine screw and stove bolt nuts, wingnuts, etc.....	..do.....	61.2	30.0
	Screws:			
34521 23	Cap and set screws, hexagon head, 1/4 inch diameter and larger.....	Million pieces.....	2,353.1	61.9
34521 25	Other cap and set screws.....	..do.....	1,536.5	28.0
34521 33	Machine screws, including stove bolts.....	..do.....	10,002.9	62.3
34521 36	Tapping screws (thread-forming and thread-cutting screws, including sheet metal and hardened metallic drive screws).....	..do.....	25,989.4	90.0
34521 38	Wood screws (except wood-drive screws).....	Million gross.....	22.2	19.0
34521 39	Other screws.....	..do.....	(NA)	13.5
	Washers:			
34521 45	Spring, spiral, and other lock.....	Million pieces.....	10,050.5	31.3
34521 49	Flat and other.....	1,000 lb.....	(NA)	33.1
	Rivets:			
34521 51	Aircraft rivets.....	Million lb.....	15.7	29.9
34521 53	7/16 inch and under (other than aircraft).....	..do.....	75.3	39.9
34521 57	1/2 inch and over (other than aircraft).....	..do.....	29.9	5.1

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1967—total product shipments including interplant transfers			
			Quantity		Value (million dollars)	
3452- --	BOLTS, NUTS, RIVETS, AND WASHERS--Continued					
34521 --	Bolts, Nuts, and Other Standard Industrial Fasteners--Continued					
34521 81	Pins (aircraft, straight, dowel, clevis, cotter and miscellaneous patent).....			(X)		16.9
34521 85	Toggle bolts and similar devices.....			(X)		13.3
34521 98	Other standard fasteners.....			(X)		38.3
34521 00	Bolts, nuts, screws, rivets, etc., n.s.k.....			(X)		25.8
34522 15	Special industrial fasteners (nonstandard).....			(X)		361.5
34523 --	Headed products (produced by cold and hot heading), other than industrial fasteners.....			(X)		195.9
	Other headed products:					
34523 12	Automotive.....			(X)		91.2
34523 22	Aircraft and ordnance.....			(X)		46.0
34523 42	Household appliances, including radio and television.....			(X)		8.5
34523 98	All other end uses.....			(X)		50.2
34520 00	Bolts, nuts, rivets, and washers, n.s.k., for companies with 10 employees or more. (See note.).....			(X)		65.3
34520 02	Bolts, nuts, rivets, and washers, n.s.k., for companies with less than 10 employees. (See note.).....			(X)		6.5
		Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3462- --	IRON AND STEEL FORGING, TOTAL.....	1,000 s. tons.	(NA)	¹ 1,838.7	(NA)	1,550.7
34621 --	Drop, Upset, and Press Steel Forgings (Closed-Die) ⁴		(X)	1,275.1	(X)	1,048.5
34621 11	Carbon steel.....	1,000 s. tons.	1,476.7	765.3	1,312.0	560.4
34621 33	Hi-temp (iron-base alloys suitable for use at temperatures of 1,000°F.).....	..do.....	8.5	77.0		
34621 35	Alloy steel, excluding stainless and hi-temp.....	..do.....	602.5	374.3	733.5	474.8
34621 51	Stainless steel.....	..do.....	31.3	43.4		
34621 00	Drop, upset, and press steel forgings, not specified by grade....		(X)	15.1	(X)	13.3
34629 --	Open-Die Hammer and Press Forgings ⁴		(X)	524.6	(X)	462.9
33129 --						
33129 --	Made in steelworks (industry 3312).....	1,000 s. tons.	(NA)	266.1	(NA)	208.6
34629 --	Made in steel forgings (industry 3462) and other industries.....	..do.....	(NA)	258.5	(NA)	254.3
	Open-Die or Smith Forgings. (Open Frame, Hammer, or Press):					
	Open-die hammer forgings:					
33129 21	Carbon steel.....	..do.....	116.2	69.5	140.6	58.5
34629 21						
34629 22	Alloy steel, excluding stainless.....	..do.....	65.3	67.4	60.9	65.1
33129 23						
33129 23	Made in industry 3312.....	..do.....	7.6	9.5	11.2	11.6
34629 22	Made in industry 3462 and other industries.....	..do.....	57.7	57.9	49.7	53.5
34629 23						
33129 25	Stainless steel.....	..do.....	7.7	13.1	8.6	21.8
	Open-die press forgings:					
33129 61	Carbon steel.....	..do.....	223.1	96.9	164.6	74.1
34629 41						
33129 61	Made in industry 3312.....	..do.....	80.4	35.4	46.5	24.7
34629 41	Made in industry 3462 and other industries.....	..do.....	142.7	61.5	118.1	49.4
34629 42						
33129 63	Alloy steel, except stainless.....	..do.....	286.5	233.1	266.4	213.7
33129 63	Made in industry 3312.....	..do.....	185.9	177.0	150.1	152.3
34629 42	Made in industry 3462 and other industries.....	..do.....	100.6	56.1	116.3	61.4
33129 65						
34629 43	Stainless steel.....	..do.....	10.6	17.9	5.6	9.4
33129 65						
33129 65	Made in industry 3312.....	..do.....	9.3	14.9		
34629 43	Made in industry 3462 and other industries.....	..do.....	1.3	3.0	5.6	9.4
33129 00						
34629 00	Open-die hammer and press forgings, not specified by grade.....		(X)	26.7	(X)	20.3
34620 00	Iron and steel forgings, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	34.6	(X)	37.7
34620 02	Iron and steel forgings, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.4	(X)	1.6

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers							
			1972		1967					
			Quantity	Value (million dollars)	Quantity	Value (million dollars)				
3463- --	NONFERROUS FORGINGS, TOTAL.....		(X)	280.8	(X)	348.1				
34631 --	Aluminum and Aluminum-Base Alloy Forgings ⁵		(X)	136.7	(X)	190.1				
34631 33	Closed-die.....	1,000 s. tons.	43.8	112.4	62.6	158.5				
34631 35	Open-die.....	..do.....	5.3	10.3	16.2	31.6				
34631 41	Impacts.....	..do.....	9.9	14.0	(NA)	(NA)				
34632 --	Other Nonferrous Forgings ⁵		(X)	139.1	(X)	153.6				
34632 11	Copper and copper-base alloy.....	1,000 s. tons.	30.1	61.9	28.4	54.9				
34632 61	Titanium and titanium-base alloy.....	..do.....	6.3	66.6	5.5	61.2				
34632 98	Other nonferrous metal forgings, including magnesium.....	..do.....	3.2	10.6	(X)	37.5				
34630 00	Nonferrous forgings, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	4.6	(X)	4.0				
34630 02	Nonferrous forgings, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	.4	(X)	.4				
1972 product code	Product	Unit of measure	1972						1967 total shipments, including interplant transfers	
			Total shipments, including interplant transfers		Commercial shipments		Interplant transfers			
			Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
34650 13	Automotive job stampings (truck, bus, and passenger car).	1,000 s. tons.	11,223.6	5,155.8	5,223.9	2,531.3	5,999.5	2,624.5	(NA)	3,178.2
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers							
			1972		1967					
			Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)		
3466- --	CROWNS AND CLOSURES, TOTAL.....			(X)	339.4	(X)	290.0			
34661 --	Metal Commercial Closures and Metal Home Canning Closures, Except Crowns.....			(X)	274.6	(X)	204.6			
34661 10	Metal commercial closures and home canning closures, except milk bottle closures: As reported in the census of manufactures..... As reported in Current Industrial Report M-34H ⁶.....	..... Million units.		(X) 18,985.0	264.8 252.6	(NA) 17,440.4	200.8 (NA)		
34661 51	Milk bottle closures (aluminum and tin mill only).....			(X)	9.8	(X)	3.8			
34661 00	Metal commercial closures and metal home canning closures, except crowns, n.s.k.....									
34662 00	Metal Crowns: As reported in the census of manufactures..... As reported in Current Industrial Report M-34H ⁶.....	..... Million gross.		(X) 230.7	64.8 60.9	(X) 326.7	85.4 (NA)		
3469- --	METAL STAMPINGS, N.E.C., TOTAL.....			(X)	2,584.8	(X)	2,057.0			
34692 --	Job Stampings, Except Automotive ⁷			(X)	1,283.1	(X)	1,076.9			
34692 11	Aviation stampings.....			(X)	48.7	(X)	^r 123.8			
34692 15	Agricultural equipment stampings, including tractor.....			(X)	45.1	(X)	42.5			
34692 25	Electrical appliance stampings, except refrigeration and laundry equipment.....			(X)	133.9	(X)	^r 62.1			
34692 31	Furniture stampings.....			(X)	36.4	(X)	^r 25.1			
34692 41	Office machine stampings.....			(X)	52.8	(X)	^r 42.7			
34692 51	Radio and television stampings.....			(X)	133.8	(X)	^r 127.9			
34692 61	Refrigerator stampings.....			(X)	59.3	(X)	53.3			
34692 71	Stove, heater, and air-conditioner stampings.....			(X)	65.8	(X)	^r 38.9			
34692 84	Laundry equipment stampings.....			(X)	15.9	(X)	^r 9.4			
34692 98	Other job stampings.....			(X)	614.3	(X)	^r 496.6			
34692 00	Job stampings, except automotive, n.s.k.....			(X)	77.1	(X)	54.6			
34694 --	Stamped and Spun Utensils, Cooking and Kitchen, Aluminum.....			(X)	205.0	(X)	148.2			
34694 13	Cooking and kitchen utensils: Top-of-range utensils (items generally used directly on top of source of heat), including pressure cookers.....	..... Million units.		82.5	124.2	164.8	104.3		
34694 15	Bakeware,pantryware, and miscellaneous household utensils....	..do.....		46.2	56.4	(NA)	28.4			
34694 21	Commercial and hospital.....	..do.....		(NA)	22.4	6.0	15.1			
34694 00	Stamped and spun utensils, cooking and kitchen, aluminum, n.s.k.....			(X)	2.0	(X)	.4			

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3469- --	METAL STAMPINGS, N.E.C.--Continued					
34695 --	Stamped and Spun Utensils, Cooking and Kitchen, Except Aluminum... Stainless steel:		(X)	184.4	(X)	141.6
34695 03	Top-of-range utensils (items generally used directly on top of source of heat.....)	Million units.	14.8	66.0	24.8	48.9
34695 05	Bakeware, pantryware, and miscellaneous household utensils....	...do.....	83.2	45.4	82.8	37.1
34695 12	Commercial and hospital.....	...do.....	(NA)	31.3	(NA)	21.3
	Tinware:					
34695 23	Household.....	...do.....	(NA)	22.5	34.5	16.3
34695 25	Commercial and hospital.....	...do.....				
34695 98	Other metal.....		(X)	14.0	(X)	13.8
34695 00	Stamped and spun utensils, cooking and kitchen, except aluminum, n.s.k.....		(X)	5.2	(X)	4.2
34699 --	Other Stamped and Pressed Metal End Products, Including Vitreous Enameled Products.....		(X)	588.4	(X)	444.2
	Vitreous enameled products: ⁸					
34699 13	Household cooking and kitchen utensils.....		(X)	29.9	(X)	26.7
34699 41	Architectural vitreous (porcelain) parts (exterior and interior), including store front and curtain wall components.		(X)	10.1	(X)	10.3
34699 48	Other vitreous (porcelain) enameled products, including refrigerator parts, commercial and hospital utensils, and laundry equipment parts sold separately.....		(X)	28.9	(X)	26.7
	Other stamped and pressed metal end products:					
34699 59	Perforated metal end products.....		(X)	50.4	(X)	44.2
	Pails, ashcans, garbage cans, tubs, etc., excluding shipping containers:					
34699 61	Galvanized steel.....		(X)	59.7	(X)	44.1
34699 69	Other metal, including other grades of steel.....		(X)	36.3	(X)	17.7
34699 71	Electronic enclosures (stamped and/or pressed).....		(X)	68.2	(X)	42.8
34699 98	Other stamped and pressed metal end products.....		(X)	278.0	(X)	211.2
34699 00	Other stamped and pressed metal end products, n.s.k.....		(X)	26.9	(X)	20.5
34690 00	Metal stampings, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	⁹ 263.0	(X)	⁹ 213.8
34690 02	Metal stampings, n.e.c., n.s.k., for establishments with less than 10 employees) (See note.).....		(X)	⁹ 60.9	(X)	⁹ 32.3
1972 product code	Product	Total product shipments including interplant transfers ¹⁰ (million dollars)				
		1972		1967		
3471- --	PLATING AND POLISHING.....			1,008.9	756.1	
34710 11	Electroplating, plating, and polishing.....			1,008.9	756.1	
3479- --	METAL COATING AND ALLIED SERVICES, TOTAL.....			637.1	404.3	
34790 --	Coating, Engraving, and Allied Services, N.E.C.:					
34790 13	Etching and engraving metal nameplates.....			41.2	46.5	
34790 19	Other engraving.....			23.5	8.0	
34790 31	Galvanizing and other hot-dip coating.....			95.3	60.0	
	Organic coatings, enamels, and lacquers (including alkydes, vinyls, acrylics, plastisols, etc.):					
34790 61	Coil coating.....			123.1	106.0	
34790 71	Spray coating, including electrostatic coating.....			112.9	54.4	
34790 81	All other, including curtain coating, wash coating, etc.....			116.7	35.9	
34790 00	Metal coating and allied services, n.s.k., for companies with 10 employees or more. (See note.).....			79.9	68.7	
34790 02	Metal coating and allied services, n.s.k., for companies with less than 10 employees. (See note.)....			44.5	24.7	

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. ^R Revised.

¹The figures shown in this column are limited to those products for which the reporting was 75 percent complete or more, based on value. Estimates are included for the remaining 25 percent or less based on average unit price for each product.

²The product class structure for this industry has been revised from that used in prior years.

³Includes product class 33129, open-die hammer and press forgings made in steel mills.

⁴These figures are not strictly comparable with tonnage figures shown in Current Industrial Reports series MA-33C, Commercial Steel Forgings, in that the latter include only forgings for sale, whereas the 1972 and 1967 census of manufactures also include interplant transfers of forgings. Accordingly, a direct comparison with the Current Industrial Reports series is not possible. Forgings produced and consumed are not included in

Footnotes continued on next page

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A-1)--Continued

either the census or the current industrial reports figures. The annual totals in the Current Industrial Reports survey for commercial steel forgings were as follows:

Item	1972 (1,000 s. tons)	1967 (1,000 s. tons)
Closed-die (drop, upset, and press) forgings:		
Carbon.....	977.0	1,010.8
Alloy, including stainless.....	507.0	524.5
Open-die hammer forgings:		
Carbon.....	93.9	117.1
Alloy, including stainless.....	58.9	84.7
Open-die press forgings:		
Carbon.....	99.3	70.8
Alloy, including stainless.....	135.1	127.3

⁵For 1971 and prior years, this industry had only one product class. The product class structure was revised in 1972 to separate aluminum and aluminum-base alloy forgings from other nonferrous forgings.

⁶See table 6A-2 for detailed product data.

⁷"Job stampings" are mainly parts which are sold to other manufacturers for incorporation into their own products. Job stampings may be made from materials owned by the customer. These figures represent only those stampings made from materials owned by the establishment performing the stamping operation.

⁸Data are limited to vitreous-enameled products produced from materials owned by the producing company. Data do not include the value of receipts for enameled work done on materials owned by others (enameled product for the trade).

⁹This figure also includes data for new industries: 3465, Metal Stampings; and 3466, Crowns and Closures.

¹⁰Value consists principally of receipts for work done on materials owned by others. The value represents only work done by establishments classified in industries 3471 and 3479, respectively.

TABLE 6A-2. Metal Closures for Containers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972		1967 quantity
			Quantity	Value (\$1,000)	
	METAL CLOSURES FOR GLASS CONTAINERS				
	Metal Commercial Closures (caps).....	Million units...	17,601.2	185,101	16,369.7
	By destination:				
34661 41	Domestic.....	...do.....	17,256.0	(X)	16,369.7
34661 61	Export.....	...do.....	345.2	(X)	
34661 62					
34661 03	Screw thread and lug type (nonvacuum).....	...do.....	10,565.1	96,904	9,624.3
	By type of metal:				
34661 11	Aluminum.....	...do.....	2,978.2	(X)	2,621.2
34661 31	Tin mill products.....	...do.....	7,586.9	(X)	7,003.1
	By size:				
34661 33	38 millimeter and smaller.....	...do.....	7,165.0	(X)	6,416.7
34661 34	Over 38 millimeter (except styles 445, 450, and 460).....	...do.....	2,201.0	(X)	2,193.1
34661 36	Styles 445, 450, and 460.....	...do.....	1,199.1	(X)	1,014.1
	By type of liner:				
34661 37	Paper, including laminates.....	...do.....	8,073.9	(X)	8,552.2
34661 38	Compound, plastic and rubber.....	...do.....	1,470.5	(X)	713.3
34661 39	Other, including unlined.....	...do.....	1,020.7	(X)	358.4
34661 52	Metal caps (vacuum).....	...do.....	7,036.1	88,197	6,745.4
	Home Canning Closures:				
	Tin mill products:				
34661 81	Metal lids.....	Million gross...	11.5	14,465	(D)
34661 83	Metal screw bands.....	...do.....			(D)
34661 87	Other home canning closures, including zinc products, glass lids, and shoulder and top-seal jar rings.....	...do.....			(D)
	METAL CLOSURES FOR OTHER CONTAINERS				
34661 55	Metal Closures (Caps) for Metal Cans (Except Crowns) ¹	Million units...	733.8	6,144	716.1
34661 57	Metal Closures (Caps) for Plastic Containers, Vials, and Tubes (Rigid, Flexible, and Collapsible).....	...do.....	572.4	3,850	354.5
	Metal Closures for Glass and Metal Pressure Containers:				
	Metal crowns:				
34662 15	Soft drink.....	Million gross...	135.2	36,493	221.9
34662 19	Beer and all other.....	...do.....	95.5	24,440	104.8
	All other metal closures (roll-ons, snip tabs, tear-off and flip caps):				
34661 63	Soft drink.....	...do.....	54.3	33,472	5.3
34661 69	Beer and all other.....	...do.....	11.9	9,575	13.3

(X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

¹Includes caps produced "for own use" by can producing companies.

Source: Current Industrial Reports series M34H, "Closures for Containers."

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
AUTOMOTIVE SCREW MACHINE PRODUCTS (34511) ¹			EXTERNALLY THREADED FASTENERS, EXCEPT AIRCRAFT (34524) ¹		
United States.....	245.7	(NA)	United States.....	979.5	(NA)
Northeast Region.....	27.5	(NA)	Northeast Region.....	221.1	(NA)
New England Division.....	13.0	(NA)	New England Division.....	91.9	(NA)
Massachusetts.....	BB	(NA)	New Hampshire.....	CC	(NA)
Rhode Island.....	AA	(NA)	Massachusetts.....	35.3	(NA)
Connecticut.....	8.8	(NA)	Rhode Island.....	EE	(NA)
Middle Atlantic Division.....	14.5	(NA)	Connecticut.....	37.7	(NA)
New York.....	9.4	(NA)	Middle Atlantic Division.....	129.2	(NA)
New Jersey.....	2.8	(NA)	New York.....	29.1	(NA)
Pennsylvania.....	2.3	(NA)	New Jersey.....	12.7	(NA)
North Central Region.....	208.0	(NA)	Pennsylvania.....	87.5	(NA)
East North Central Division.....	203.9	(NA)	North Central Region.....	600.2	(NA)
Ohio.....	30.0	(NA)	East North Central Division.....	578.8	(NA)
Indiana.....	6.9	(NA)	Ohio.....	168.1	(NA)
Illinois.....	42.0	(NA)	Indiana.....	52.3	(NA)
Michigan.....	119.0	(NA)	Illinois.....	259.3	(NA)
Wisconsin.....	6.1	(NA)	Michigan.....	97.6	(NA)
West North Central Division.....	4.1	(NA)	Wisconsin.....	1.6	(NA)
Iowa.....	AA	(NA)	West North Central Division.....	21.5	(NA)
Missouri.....	1.9	(NA)	Minnesota.....	BB	(NA)
South Region.....	5.3	(NA)	Iowa.....	AA	(NA)
East South Central Division.....	4.3	(NA)	Missouri.....	EE	(NA)
Tennessee.....	BB	(NA)	South Region.....	123.3	(NA)
West Region.....	4.9	(NA)	South Atlantic Division.....	57.2	(NA)
Mountain Division.....	AA	(NA)	Maryland.....	AA	(NA)
Colorado.....	AA	(NA)	Virginia.....	EE	(NA)
Pacific Division.....	BB	(NA)	West Virginia.....	AA	(NA)
California.....	BB	(NA)	North Carolina.....	FF	(NA)
OTHER SCREW MACHINE PRODUCTS (34512) ¹			South Carolina.....	AA	(NA)
United States.....	638.7	(NA)	Florida.....	BB	(NA)
Northeast Region.....	197.5	(NA)	East South Central Division.....	56.2	(NA)
New England Division.....	92.8	(NA)	Kentucky.....	FF	(NA)
New Hampshire.....	AA	(NA)	Alabama.....	26.9	(NA)
Massachusetts.....	34.5	(NA)	Mississippi.....	BB	(NA)
Rhode Island.....	6.2	(NA)	West South Central Division.....	9.9	(NA)
Connecticut.....	50.6	(NA)	Texas.....	CC	(NA)
Middle Atlantic Division.....	104.8	(NA)	West Region.....	34.6	(NA)
New York.....	51.6	(NA)	Mountain Division.....	3.6	(NA)
New Jersey.....	27.2	(NA)	Colorado.....	BB	(NA)
Pennsylvania.....	26.0	(NA)	Pacific Division.....	31.0	(NA)
North Central Region.....	360.6	(NA)	Washington.....	CC	(NA)
East North Central Division.....	314.9	(NA)	California.....	22.9	(NA)
Ohio.....	80.7	(NA)	INTERNALLY THREADED FASTENERS, EXCEPT AIRCRAFT (34525) ¹		
Indiana.....	33.4	(NA)	United States.....	248.5	(NA)
Illinois.....	116.9	(NA)	Northeast Region.....	78.0	(NA)
Michigan.....	63.9	(NA)	New England Division.....	11.7	(NA)
Wisconsin.....	20.6	(NA)	Massachusetts.....	3.0	(NA)
West North Central Division.....	45.6	(NA)	Rhode Island.....	1.5	(NA)
Minnesota.....	18.5	(NA)	Connecticut.....	7.3	(NA)
Iowa.....	4.7	(NA)	Middle Atlantic Division.....	66.2	(NA)
Missouri.....	20.0	(NA)	New York.....	11.1	(NA)
Nebraska.....	AA	(NA)	New Jersey.....	27.7	(NA)
South Region.....	26.3	(NA)	Pennsylvania.....	27.4	(NA)
South Atlantic Division.....	11.7	(NA)	North Central Region.....	153.4	(NA)
Maryland.....	BB	(NA)	East North Central Division.....	GG	(NA)
North Carolina.....	3.2	(NA)	Ohio.....	44.8	(NA)
Georgia.....	AA	(NA)	Indiana.....	EE	(NA)
Florida.....	4.0	(NA)	Illinois.....	FF	(NA)
East South Central Division.....	5.9	(NA)	Michigan.....	58.5	(NA)
Tennessee.....	3.0	(NA)	South Region.....	14.3	(NA)
Alabama.....	AA	(NA)	East South Central Division.....	EE	(NA)
West South Central Division.....	8.6	(NA)	Kentucky.....	AA	(NA)
Arkansas.....	BB	(NA)	Tennessee.....	EE	(NA)
Oklahoma.....	BB	(NA)	Alabama.....	BB	(NA)
Texas.....	4.4	(NA)	West Region.....	2.8	(NA)
West Region.....	54.4	(NA)	Pacific Division.....	BB	(NA)
Mountain Division.....	3.0	(NA)	California.....	BB	(NA)
Arizona.....	BB	(NA)			
Pacific Division.....	51.4	(NA)			
Oregon.....	1.9	(NA)			
California.....	48.7	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
NONTHEADED FASTENERS, EXCEPT AIRCRAFT (34526) ¹			OTHER FORMED PARTS (34528)--Continued		
United States.....	353.2	(NA)	South Region.....	BB	(NA)
Northeast Region.....	150.3	(NA)	West South Central Division.....	BB	(NA)
New England Division.....	40.7	(NA)	Texas.....	BB	(NA)
Massachusetts.....	14.3	(NA)	West Region.....	CC	(NA)
Rhode Island.....	1.3	(NA)	Pacific Division.....	6.5	(NA)
Connecticut.....	25.2	(NA)	California.....	CC	(NA)
Middle Atlantic Division.....	109.6	(NA)			
New York.....	19.0	(NA)	DROP, UPSET AND PRESS STEEL FORGINGS (CLOSED DIE) (34621) ¹		
New Jersey.....	17.8	(NA)	United States.....	1,275.1	(NA)
Pennsylvania.....	72.8	(NA)	Northeast Region.....	EE	(NA)
North Central Region.....	179.7	(NA)	New England Division.....	GG	(NA)
East North Central Division.....	GG	(NA)	Maine.....	CC	(NA)
Ohio.....	73.5	(NA)	Massachusetts.....	61.8	(NA)
Indiana.....	BB	(NA)	Rhode Island.....	BB	(NA)
Illinois.....	55.8	(NA)	Connecticut.....	10.4	(NA)
Michigan.....	19.7	(NA)	Middle Atlantic Division.....	GG	(NA)
Wisconsin.....	26.5	(NA)	New York.....	69.8	(NA)
West North Central Division.....	AA	(NA)	New Jersey.....	BB	(NA)
Minnesota.....	AA	(NA)	Pennsylvania.....	GG	(NA)
South Region.....	14.6	(NA)			
South Atlantic Division.....	CC	(NA)	North Central Region.....	968.8	(NA)
Florida.....	CC	(NA)	East North Central Division.....	GG	(NA)
West South Central Division.....	CC	(NA)	Ohio.....	214.8	(NA)
Texas.....	CC	(NA)	Indiana.....	GG	(NA)
West Region.....	8.5	(NA)	Illinois.....	GG	(NA)
Pacific Division.....	CC	(NA)	Michigan.....	GG	(NA)
California.....	7.9	(NA)	Wisconsin.....	GG	(NA)
			West North Central Division.....	FF	(NA)
AIRCRAFT-AEROSPACE FASTENERS (34527) ¹			Missouri.....	FF	(NA)
United States.....	157.8	(NA)	South Region.....	62.2	(NA)
Northeast Region.....	32.9	(NA)	East South Central Division.....	FF	(NA)
New England Division.....	CC	(NA)	Kentucky.....	EE	(NA)
Connecticut.....	CC	(NA)	Tennessee.....	11.4	(NA)
Middle Atlantic Division.....	FF	(NA)	Alabama.....	AA	(NA)
New York.....	AA	(NA)	Mississippi.....	AA	(NA)
New Jersey.....	EE	(NA)	West South Central Division.....	32.2	(NA)
Pennsylvania.....	EE	(NA)	Oklahoma.....	BB	(NA)
North Central Region.....	EE	(NA)	Texas.....	FF	(NA)
East North Central Division.....	14.4	(NA)	West Region.....	FF	(NA)
Ohio.....	AA	(NA)	Pacific Division.....	FF	(NA)
Illinois.....	AA	(NA)	Washington.....	AA	(NA)
Michigan.....	10.1	(NA)	Oregon.....	BB	(NA)
West North Central Division.....	BB	(NA)	California.....	FF	(NA)
Minnesota.....	AA	(NA)			
Missouri.....	AA	(NA)	OPEN-DIE OR SMITH FORGINGS FROM PURCHASED MATERIALS (34629) ¹		
West Region.....	107.8	(NA)	United States.....	258.5	(NA)
Pacific Division.....	107.8	(NA)	Northeast Region.....	66.3	(NA)
California.....	GG	(NA)	New England Division.....	BB	(NA)
			Massachusetts.....	AA	(NA)
OTHER FORMED PARTS (34528) ¹			Connecticut.....	AA	(NA)
United States.....	140.3	(NA)	Middle Atlantic Division.....	GG	(NA)
Northeast Region.....	35.5	(NA)	New York.....	13.3	(NA)
New England Division.....	9.1	(NA)	New Jersey.....	BB	(NA)
Massachusetts.....	BB	(NA)	Pennsylvania.....	47.1	(NA)
Connecticut.....	5.2	(NA)			
Middle Atlantic Division.....	26.4	(NA)	North Central Region.....	131.3	(NA)
New York.....	4.6	(NA)	East North Central Division.....	GG	(NA)
New Jersey.....	4.1	(NA)	Ohio.....	92.3	(NA)
Pennsylvania.....	17.7	(NA)	Indiana.....	EE	(NA)
North Central Region.....	94.2	(NA)	Illinois.....	12.7	(NA)
East North Central Division.....	92.3	(NA)	Michigan.....	11.2	(NA)
Ohio.....	16.2	(NA)	Wisconsin.....	BB	(NA)
Indiana.....	EE	(NA)	West North Central Division.....	AA	(NA)
Illinois.....	19.6	(NA)	Minnesota.....	AA	(NA)
Michigan.....	42.4	(NA)			
Wisconsin.....	AA	(NA)	South Region.....	31.0	(NA)
West North Central Division.....	2.0	(NA)	South Atlantic Division.....	BB	(NA)
Iowa.....	AA	(NA)	North Carolina.....	BB	(NA)
			West South Central Division.....	FF	(NA)
			Louisiana.....	BB	(NA)
			Texas.....	26.0	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OPEN DIE OR SMITH FORGINGS FROM PURCHASED MATERIALS (34629)--Continued			METAL COMMERCIAL CLOSURES AND METAL HOME CANNING CLOSURES (EXCEPT CROWNS) (34661)--Continued		
West Region.....	29.9	(NA)	South Region.....	EE	18.8
Pacific Division.....	29.9	(NA)	South Atlantic Division.....	CC	9.0
California.....	FF	(NA)	Maryland.....	4.4	BB
			West Virginia.....	BB	BB
ALUMINUM AND ALUMINUM BASE ALLOY FORGING (34631) ¹			Florida.....	BB	AA
United States.....	136.7	(NA)	East South Central Division.....	BB	BB
Northeast Region.....	FF	(NA)	Kentucky.....	AA	(NA)
New England Division.....	EE	(NA)	Mississippi.....	AA	AA
Massachusetts.....	CC	(NA)			
Connecticut.....	BB	(NA)	West Region.....	FF	18.1
Middle Atlantic Division.....	FF	(NA)	Pacific Division.....	FF	18.1
New York.....	AA	(NA)	California.....	FF	18.1
Pennsylvania.....	EE	(NA)			
North Central Region.....	GG	(NA)	METAL CROWNS (34662) ²		
East North Central Division.....	GG	(NA)	United States.....	68.8	85.4
Ohio.....	FF	(NA)	Northeast Region.....	FF	19.8
Indiana.....	BB	(NA)	New England Division.....	BB	AA
Illinois.....	BB	(NA)	New Hampshire.....	BB	19.8
Michigan.....	BB	(NA)	Connecticut.....	AA	AA
			Middle Atlantic Division.....	EE	(NA)
South Region.....	7.8	(NA)	New Jersey.....	AA	BB
West South Central Division.....	CC	(NA)	Pennsylvania.....	EE	CC
Texas.....	CC	(NA)			
West Region.....	FF	(NA)	North Central Region.....	22.8	22.8
Pacific Division.....	FF	(NA)	East North Central Division.....	FF	FF
California.....	FF	(NA)	Indiana.....	BB	BB
			Illinois.....	15.2	12.1
OTHER NONFERROUS FORGINGS (EXCEPT ALUMINUM) (34632) ¹			Wisconsin.....	BB	CC
United States.....	139.1	(NA)	South Region.....	FF	34.0
Northeast Region.....	59.0	(NA)	South Atlantic Division.....	CC	EE
New England Division.....	32.8	(NA)	Maryland.....	CC	EE
Massachusetts.....	EE	(NA)	Georgia.....	AA	(NA)
Connecticut.....	EE	(NA)	East South Central Division.....	CC	BB
Middle Atlantic Division.....	26.1	(NA)	Alabama.....	CC	BB
New York.....	BB	(NA)	West South Central Division.....	CC	13.6
New Jersey.....	AA	(NA)	Louisiana.....	CC	CC
Pennsylvania.....	22.5	(NA)	Texas.....	BB	CC
North Central Region.....	GG	(NA)	West Region.....	AA	8.8
East North Central Division.....	GG	(NA)	Pacific Division.....	AA	CC
Ohio.....	CC	(NA)	California.....	AA	CC
Indiana.....	CC	(NA)			
Illinois.....	5.9	(NA)	JOB STAMPING, EXCEPT AUTOMOTIVE (34692)		
Michigan.....	18.2	(NA)	United States.....	1,283.1	1,076.9
Wisconsin.....	EE	(NA)	Northeast Region.....	395.8	369.6
West Region.....	FF	(NA)	New England Division.....	116.0	116.7
Mountain Division.....	CC	(NA)	New Hampshire.....	AA	(NA)
Nevada.....	CC	(NA)	Massachusetts.....	39.3	37.1
Pacific Division.....	EE	(NA)	Rhode Island.....	14.7	9.1
California.....	EE	(NA)	Connecticut.....	60.1	69.1
			Middle Atlantic Division.....	269.7	252.8
METAL COMMERCIAL CLOSURES AND METAL HOME CANNING CLOSURES (EXCEPT CROWNS) (34661) ²			New York.....	122.0	98.5
United States.....	277.6	204.6	New Jersey.....	66.2	64.6
Northeast Region.....	112.6	71.2	Pennsylvania.....	91.5	89.6
New England Division.....	1.0	1.1			
Middle Atlantic Division.....	111.9	70.1	North Central Region.....	725.6	581.1
New York.....	CC	7.8	East North Central Division.....	635.6	529.2
New Jersey.....	FF	29.3	Ohio.....	179.9	164.1
Pennsylvania.....	GG	33.1	Indiana.....	37.1	25.9
North Central Region.....	126.2	96.5	Illinois.....	267.4	218.7
East North Central Division.....	126.2	GG	Michigan.....	57.0	56.7
Indiana.....	GG	26.6	Wisconsin.....	94.2	63.9
Illinois.....	73.3	64.6	West North Central Division.....	90.1	51.9
			Minnesota.....	51.7	33.8
			Iowa.....	20.1	3.2
			Missouri.....	16.0	13.6
			South Region.....	90.1	77.3
			South Atlantic Division.....	18.4	13.0
			West Virginia.....	5.0	BB
			North Carolina.....	3.1	3.9
			South Carolina.....	AA	AA
			Florida.....	6.6	4.2

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
JOB STAMPINGS, EXCEPT AUTOMOTIVE (34692)--Con.			STAMPED AND SPUN UTENSILS, COOKING AND KITCHEN, EXCEPT ALUMINUM (34695)--Continued		
South Region--Continued			South Region.....	32.0	EE
East South Central Division.....	55.3	55.7	South Atlantic Division.....	EE	1.9
Kentucky.....	24.8	27.4	Maryland.....	BB	AA
Tennessee.....	EE	20.4	Florida.....	CC	(NA)
Alabama.....	EE	CC	East South Central Division.....	10.6	5.4
Mississippi.....	AA	AA	Kentucky.....	AA	AA
West South Central Division.....	16.4	8.5	Alabama.....	AA	AA
Arkansas.....	CC	AA	Mississippi.....	CC	BB
Oklahoma.....	BB	3.0	West South Central Division.....	CC	BB
Texas.....	6.0	3.0	Arkansas.....	CC	BB
West Region.....	71.5	49.1	Texas.....	AA	AA
Mountain Division.....	3.3	2.4	West Region.....	4.2	BB
Colorado.....	BB	(NA)	Pacific Division.....	BB	AA
Pacific Division.....	68.2	46.6	California.....	BB	BB
Washington.....	AA	(NA)			
Oregon.....	BB	(NA)	OTHER STAMPED AND PRESSED METAL END PRODUCTS (34699) ²		
California.....	64.3	45.5	United States.....	588.4	444.1
STAMPED AND SPUN UTENSILS, COOKING AND KITCHEN, ALUMINUM (34694) ²			Northeast Region.....	195.3	175.4
United States.....	205.0	148.2	New England Division.....	60.4	(NA)
Northeast Region.....	23.6	13.7	Maine.....	AA	(NA)
New England Division.....	AA	2.3	New Hampshire.....	AA	(NA)
Massachusetts.....	AA	(NA)	Massachusetts.....	33.6	(NA)
Middle Atlantic Division.....	FF	11.5	Rhode Island.....	6.7	(NA)
New York.....	6.7	5.1	Connecticut.....	17.3	(NA)
New Jersey.....	EE	(NA)	Middle Atlantic Division.....	135.0	(NA)
North Central Region.....	153.0	GG	New York.....	52.2	(NA)
East North Central Division.....	GG	115.6	New Jersey.....	37.4	(NA)
Ohio.....	39.4	42.1	Pennsylvania.....	45.3	50.1
Indiana.....	AA	(NA)	North Central Region.....	251.0	199.9
Illinois.....	CC	CC	East North Central Division.....	212.8	170.8
Wisconsin.....	87.6	67.2	Ohio.....	80.7	61.8
West North Central Division.....	EE	BB	Indiana.....	28.2	(NA)
Minnesota.....	EE	BB	Illinois.....	63.2	54.0
South Region.....	FF	EE	Michigan.....	27.4	17.8
South Atlantic Division.....	FF	EE	Wisconsin.....	13.3	(NA)
Georgia.....	FF	EE	West North Central Division.....	38.2	(NA)
West South Central Division.....	CC	(NA)	Minnesota.....	7.6	(NA)
Arkansas.....	CC	(NA)	Missouri.....	28.0	(NA)
West Region.....	AA	(NA)	Nebraska.....	BB	(NA)
Pacific Division.....	AA	(NA)	South Region.....	80.4	(NA)
STAMPED AND SPUN UTENSILS, COOKING AND KITCHEN, EXCEPT ALUMINUM (34695) ²			South Atlantic Division.....	31.9	(NA)
United States.....	184.4	141.6	Maryland.....	1.7	(NA)
Northeast Region.....	27.8	26.4	West Virginia.....	10.1	(NA)
Middle Atlantic Division.....	27.1	25.7	South Carolina.....	CC	(NA)
New York.....	25.7	22.4	Georgia.....	8.4	(NA)
Pennsylvania.....	AA	AA	Florida.....	4.0	(NA)
North Central Region.....	120.4	101.7	East South Central Division.....	41.1	20.9
East North Central Division.....	116.7	96.7	Kentucky.....	14.0	(NA)
Ohio.....	EE	19.8	Tennessee.....	16.5	(NA)
Indiana.....	BB	BB	Alabama.....	CC	(NA)
Illinois.....	53.8	38.0	Mississippi.....	BB	(NA)
Wisconsin.....	39.4	34.8	West South Central Division.....	7.5	(NA)
West North Central Division.....	3.7	4.9	Arkansas.....	AA	(NA)
Minnesota.....	BB	3.1	Texas.....	CC	(NA)
			West Region.....	61.7	(NA)
			Mountain Division.....	2.4	(NA)
			Colorado.....	AA	(NA)
			Utah.....	AA	(NA)
			Pacific Division.....	59.4	(NA)
			Oregon.....	1.6	(NA)
			California.....	57.1	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

Footnotes continued on next page.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 6B)—Continued

¹The individual product codes included in this class of products for 1972 differ significantly from the 1967 definition. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level. Thus, geographic information for 1967 are not shown.

²The comparable 1967 data in this table were developed by conversion of old SIC products codes to new SIC codes, and by combining data where necessary with only those product codes shown which are affected by the changes, as follows:

1972 new SIC	1967 old SIC	1972 new SIC	1967 old SIC	1972 new SIC	1967 old SIC	1972 new SIC	1967 old SIC	1972 new SIC	1967 old SIC
34661	34616	34692	34612	34694	34614	34695	34615	34699	{ 34611 34618

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3451	Screw machine products.....	1,083.1	987.6	1,088.0	1,176.5	1,104.3	1,036.1	599.4	428.8
34511	Automotive screw machine products.....	245.7	987.6	1,088.0	1,176.5	1,104.3	1,036.1	599.4	428.8
34512	Other screw machine products.....	638.7							
34510	Screw machine products, n.s.k.....	198.7							
3452	Bolts, nuts, rivets, and washers.....	1,988.4	1,625.1	1,617.0	1,823.2	1,752.9	1,613.1	1,175.7	859.4
34524	Externally threaded fasteners, except aircraft.....	979.5	1,408.8	1,410.0	1,547.5	1,492.4	1,345.4	1,084.5	848.9
34525	Internally threaded fasteners, except aircraft.....	248.5							
34526	Nonthreaded fasteners, except aircraft.....	353.2							
34527	Aircraft-aerospace fasteners.....	157.8	181.9	178.7	246.8	233.2	195.9	76.7	10.5
34528	Other formed parts.....	140.3							
34520	Bolts, nuts, rivets, and washers, n.s.k.....	109.1							
3462	Iron and steel forgings.....	² 1,572.6	² 1,368.7	² 1,343.9	² 1,502.7	² 1,388.3	² 1,342.1	² 954.9	² 649.4
34621	Drop, upset, and press steel forgings (closed die).....	1,275.1	1,163.4	1,053.2	1,184.5	1,100.0	1,048.5	764.8	535.3
34629	Open-die, smith forgings (open frame, press, etc.).....	² 258.5	² 179.1	² 261.1	² 298.0	² 270.9	² 254.3	² 173.7	² 101.4
34620	Iron and steel forgings, n.s.k.....	39.0	26.2	29.6	20.2	(17.4)	39.3	16.4	12.7
3463	Nonferrous forgings.....	280.8	301.6	320.8	350.5	320.7	348.1	198.4	132.0
34631	Aluminum, aluminum-base alloy forgings.....	136.7	301.6	320.8	350.5	320.7	348.1	198.4	132.0
34632	Other nonferrous forgings (except aluminum).....	139.1							
34630	Nonferrous forgings, n.s.k.....	5.0							
34650	Job stampings, automotive.....	5,155.8	4,425.8	3,524.4	3,917.6	3,907.6	3,178.2	2,548.0	(NA)
3466	Crowns and closures.....	339.4	324.6	302.0	293.6	301.3	290.0	229.9	211.9
34661	Metal commercial closures and metal home canning closures..	274.6	244.9	226.3	210.1	220.3	204.6	147.9	131.1
34662	Metal crowns.....	64.8	79.7	75.7	83.5	81.0	85.4	82.0	80.8
3469	Metal stampings, n.e.c.....	2,584.8	2,222.8	2,268.1	2,367.7	2,158.4	2,057.0	1,405.6	1,185.2
34692	Job stampings, except automotive.....	1,283.1	1,221.3	1,264.4	1,332.4	1,221.0	1,076.9	756.7	576.2
34694	Stamped and spun utensils, cooking and kitchen, aluminum...	205.0	190.2	198.4	197.5	173.6	148.2	95.7	110.7
34695	Stamped, spun utensils, cooking, kitchen, except aluminum..	184.4	153.5	146.4	156.4	141.5	141.6	134.3	113.5
34699	Other stamped, pressed metal end products.....	588.4	511.8	464.7	503.8	476.4	444.2	320.8	295.8
34690	Metal stampings, n.e.c., n.s.k.....	354.0	³ 146.0	³ (194.2)	³ 177.6	³ 145.9	³ 246.1	³ 98.1	³ 89.0
34710	Electroplating, plating, and polishing ⁴	1,008.9	747.1	796.8	852.2	793.3	756.1	501.9	349.7
34790	Coating engraving, and allied services, n.e.c. ⁴	637.1	425.1	416.6	447.5	474.7	404.3	286.5	184.1

Note: See footnote 2, table 6B.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²These figures exclude press and hammer steel forgings made in steel mills (industry 3312). Totals from various industries are shown below:

	1972	1971	1970	1969	1968	1967	1963	1958
Press and Hammer Steel Forgings, total for all industries....	524.6	394.8	479.1	533.7	500.0	462.9	294.4	220.9
33129 Made in steel works (industry 3312).....	266.1	215.7	218.0	235.7	229.1	208.6	120.7	119.5
34629 Made in steel forgings (industry 3462) and other industries	258.5	179.1	261.1	298.0	270.9	254.3	173.7	101.4

³These figures include data for industries 3465, Automotive Stampings, and 3466, Crowns and Closures.

⁴Represents only work done by establishments classified in the industry to which the product (service) is primary.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 3451.--SCREW MACHINE PRODUCTS						
	Materials, parts, containers, and supplies, total.....		(X)	347.3	(X)	316.1
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons..	333.4	109.4	328.2	85.0
331012	Sheet and strip.....	..do.....	21.1	5.7	11.1	2.3
331017	Wire and wire products.....	..do.....	12.2	3.5	12.0	2.8
331013	Plates.....	..do.....	(Z)	(Z)	.6	.2
331019	All other carbon steel mill shapes and forms.....	..do.....	6.9	2.7	7.7	1.6
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	40.2	16.4	28.3	9.3
331029	All other alloy steel mill shapes and forms.....	..do.....	3.5	2.1	(NA)	1.4
	Stainless steel:					
331033	Sheet and strip.....	..do.....	1.6	2.5	11.5	17.0
331050	All other.....	..do.....	8.2	14.9		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb.....	3.6	2.7	13.4	8.0
335102	Rod, bar, and mechanical wire.....	..do.....	93.0	55.6	84.4	41.6
335143	Plate, sheet, and strip.....	..do.....	3.9	2.3	.3	.7
335152	Pipe and tube.....	..do.....	.9	.6	4.5	2.3
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	1.2	1.1	5.9	3.9
335405	Extruded shapes.....	..do.....	14.8	10.2	18.0	12.0
335008	All other aluminum mill shapes and forms.....	..do.....	9.4	5.7	7.4	5.2
332011	Iron (gray and malleable) castings, rough and semi-finished ¹	1,000 s. tons..	(NA)	5.6	(²)	(²)
332015	Steel castings, rough and semifinished ¹.....	..do.....	1.2	1.1	3.7	2.8
307902	Plastic rods, tubes, and other shapes.....	..do.....	(NA)	.7	(NA)	.6
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	43.4	(X)	65.2
976000	Materials, parts, containers, and supplies, n.s.k. ³		(X)	61.1	(X)	54.2
INDUSTRY 3452.--BOLTS, NUTS, RIVETS, AND WASHERS						
	Materials, parts, containers, and supplies, total.....		(X)	702.5	(X)	556.3
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons..	406.2	88.6	329.5	57.4
331012	Sheet and strip.....	..do.....	151.1	40.6	184.9	35.3
331013	Plates.....	..do.....	36.5	5.7	34.0	4.3
331017	Wire and wire products.....	..do.....	802.4	206.3	666.6	136.6
331019	All other carbon steel mill shapes and forms.....	..do.....	174.8	34.0	41.8	7.9
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	57.8	20.8	58.2	17.3
331029	All other alloy steel mill shapes and forms.....	..do.....	78.8	26.4	51.2	17.5
	Stainless steel:					
331033	Sheet and strip.....	..do.....	4.2	5.6	13.0	21.2
331050	All other.....	..do.....	16.0	25.5		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb.....	2.4	1.8	3.9	2.9
335102	Rod, bar, and mechanical wire.....	..do.....	36.6	30.6	52.3	36.6
335152	Pipe and tube.....	..do.....	.3	.3		
335143	Sheet, plate, and strip.....	..do.....	3.9	4.6		
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	2.7	1.8	32.8	16.1
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	3.0	1.6		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	17.1	9.8		
332011	Iron (gray and malleable) castings ⁴	1,000 s. tons..	1.4	.8	(NA)	(NA)
332045	Steel castings (rough and semifinished) ⁵.....	..do.....	.5	.5	4.6	3.6
307902	Plastic rods, tubes, and other shapes.....	..do.....	(X)	1.6	(X)	132.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	145.7		
976000	Materials, parts, containers, and supplies, n.s.k. ³		(X)	49.9	(X)	66.8

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3462.--IRON AND STEEL FORGINGS					
	Materials, containers, and supplies, total.....		(X)	674.9	(X)	589.2
331041	Carbon steel:					
331041	Ingots.....	1,000 s. tons.	9.2	2.1	116.8	15.3
331042	Blooms, billets, and slabs.....	..do.....	565.0	102.4	379.7	52.5
331043	Bars.....	..do.....	964.0	204.0	933.9	145.7
	Alloy steel (except stainless):					
331044	Ingots.....	..do.....			16.2	3.8
331045	Blooms, billets, and slabs.....	..do.....	307.2	94.1	225.5	68.5
331046	Bars.....	..do.....	410.5	112.7	414.9	100.7
	Stainless steel:					
331047	Ingots.....	..do.....	13.2	10.7	.3	.5
331048	Blooms, billets, and slabs.....	..do.....			13.6	15.6
331049	Bars.....	..do.....			6.0	7.7
	Aluminum and aluminum-base alloy:					
333471	Ingots.....	..do.....	(D)	(D)	.5	.4
335001	Mill shapes.....	Million lb....	1.6	1.3	4.5	2.3
	Titanium and titanium-base alloy:					
335627	Ingots.....	..do.....	10.4	21.3	17.8	42.4
335628	Mill shapes.....	..do.....	.8	2.1		
335693	Molybdenum and molybdenum-base alloy forging stock.....	..do.....	(D)	(D)	(NA)	(NA)
335698	Vanadium and vanadium-base alloy forging stock.....	..do.....	-	-	(NA)	(NA)
335699	Manganese and manganese-base alloy forging stock.....	..do.....	(D)	(D)	(NA)	(NA)
970099	All other materials, and components, parts, containers, and supplies consumed.....		(X)	90.2	(X)	78.7
976000	Materials, n.s.k. ³		(X)	21.8	(X)	55.1
	INDUSTRY 3463.--NONFERROUS FORGINGS					
	Materials, containers, and supplies, total.....		(X)	101.6	(X)	161.2
	Carbon steel:					
331041	Ingots.....	1,000 s. tons.	-	-	37.2	18.7
331042	Blooms, billets, and slabs.....	..do.....	.6	.2		
331043	Bars.....	..do.....	.3	.1		
	Alloy steel (except stainless):					
331044	Ingots.....	..do.....	(NA)	10.9	37.2	18.7
331045	Blooms, billets, and slabs.....	..do.....				
331046	Bars.....	..do.....				
	Stainless steel:					
331047	Ingots.....	..do.....	1.0	1.5	2.9	9.2
331048	Blooms, billets, and slabs.....	..do.....				
331049	Bars.....	..do.....				
335107	Copper and copper-base alloy forging stock.....	Million lb....	20.8	9.4	18.2	8.5
	Aluminum and aluminum-base alloy:					
333471	Ingots.....	1,000 s. tons.	27.4	21.2	(D)	(D)
335001	Mill shapes.....	Million lb....	(D)	(D)	88.3	46.8
	Titanium and titanium-base alloy:					
335627	Ingots.....	..do.....	5.4	15.6	2.9	9.2
335628	Mill shapes.....	..do.....				
335699	Manganese and manganese-base alloy forging stock.....	..do.....	(D)	(D)	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	638.9	(X)	673.9
976000	Materials, n.s.k. ³		(X)	2.5	(X)	4.1

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3465.--AUTOMOTIVE STAMPINGS			
	Materials, parts, containers, and supplies, total.....		(X)	2,480.6
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 short tons.....	129.3	27.7
331012	Sheet and strip.....	..do.....	8,825.6	1,689.6
331013	Plates.....	..do.....	65.5	12.5
331015	Structural shapes.....	..do.....	(NA)	1.2
331017	Wire and wire products.....	..do.....	22.9	6.5
331018	Tinplate, terneplate, and blackplate.....	..do.....	47.7	11.2
331019	All other carbon steel mill shapes and forms.....	..do.....	90.0	18.7
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....	1.4	1.1
331029	All other alloy steel mill shapes and forms.....	..do.....	58.3	14.0
	Stainless steel:			
331033	Sheet and strip.....	..do.....	47.1	55.9
331050	All other.....	..do.....		
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	Million lb.....	.2	.2
335102	Rod, bar, and mechanical wire.....	..do.....	(NA)	.7
335143	Plate, sheet, and strip.....	..do.....	15.1	17.7
335152	Pipe and tube.....	..do.....	(NA)	.2
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....	47.8	32.4
335405	Extruded shapes.....	..do.....	1.3	.8
335008	All other aluminum mill shapes and forms.....	..do.....	1.0	.9
333348	Zinc and zinc-base alloy refinery shapes.....	1,000 short tons.....	(NA)	5.0
	Castings (rough and semifinished):			
332011	Iron (gray and malleable).....	..do.....	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(D)	(D)
336200	Copper and copper-base alloy.....	..do.....	.1	.2
265011	Paperboard containers and boxes, including folding, corrugated, fiber, and setup.....		(X)	12.5
282140	Thermosetting resins.....	Mil. lb. (dry basis).....	(NA)	4.1
282130	Thermoplastic resins.....	..do.....		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	6503.3
976000	Materials, parts, containers, and supplies, n.s.k. ³		(X)	64.2
	INDUSTRY 3466.--CROWNS AND CLOSURES			
	Materials, parts, containers, and supplies, total.....		(X)	166.1
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	(Z)	(Z)
331012	Sheet and strip.....	..do.....	(7)	(7)
331013	Plates.....	..do.....	(7)	(7)
331015	Structural shapes.....	..do.....	-	-
331017	Wire and wire products.....	..do.....	(7)	(7)
331018	Tinplate, terneplate, and blackplate.....	..do.....	237.6	56.4
331019	All other carbon steel mill shapes and forms.....	..do.....	(7)	(7)
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....	(Z)	(Z)
331029	All other alloy steel mill shapes and forms.....	..do.....	(Z)	(Z)
	Stainless steel:			
331033	Sheet strip.....	..do.....	(7)	(7)
331050	All other.....	..do.....	-	-
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	Million lb.....	-	-
335102	Rod, bar, and mechanical wire.....	..do.....	(Z)	(Z)
335143	Plate, sheet, strip.....	..do.....	(Z)	(Z)
335152	Pipe and tube.....	..do.....	-	-
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....	(8)	(8)
335405	Extruded shapes.....	..do.....	(Z)	(Z)
335008	All other aluminum mill shapes and forms.....	..do.....	(8)	(8)
333348	Zinc and zinc-base alloy refinery shapes.....	1,000 s. tons.....	(8)	(8)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3466.--CROWNS AND CLOSURES--Continued			
	Materials, parts, containers, and supplies--Continued			
	Castings (rough and semifinished):			
332011	Iron (gray and malleable).....	1,000 s. tons.....	-	-
336100	Aluminum and aluminum-base alloy.....	Million lb.....	-	-
336200	Copper and copper-base alloy.....	..do.....	-	-
365011	Paperboard containers and boxes, including folding, corrugated, fiber, and setup.....		(X)	3.9
282140	Thermosetting resins.....	Mil. lb. (dry basis)..	2.4	.6
282130	Thermoplastic resins.....	..do.....	20.0	3.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	52.2
976000	Materials, parts, containers, and supplies, n.s.k. ³		(X)	1.0
	INDUSTRY 3469.--METAL STAMPINGS, N.E.C.			
	Materials, parts, containers, and supplies, total.....		(X)	1,083.0
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	42.7	10.7
331012	Sheet and strip.....	..do.....	1,256.5	262.9
331013	Plates.....	..do.....	220.9	49.0
331015	Structural shapes.....	..do.....	11.1	2.3
331017	Wire and wire products.....	..do.....	27.8	8.5
331018	Tinplate, terneplate, and blackplate.....	..do.....	149.6	38.1
331019	All other carbon steel mill shapes and forms.....	..do.....	41.0	9.9
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....	6.4	3.8
331029	All other alloy steel mill shapes and forms.....	..do.....	33.0	19.3
	Stainless steel:			
331033	Sheet and strip.....	..do.....	42.8	54.2
331050	All other.....	..do.....	6.0	10.2
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	Million lb.....	.7	.7
335102	Rod, bar, and mechanical wire.....	..do.....	4.8	3.9
335143	Plate, sheet, and strip.....	..do.....	40.2	36.5
335152	Pipe and tube.....	..do.....	3.3	2.8
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....	233.2	100.2
335405	Extruded shapes.....	..do.....	14.0	7.6
335008	All other aluminum mill shapes and forms.....	..do.....	22.8	12.0
333348	Zinc and zinc-base alloy refinery shapes.....	..do.....	(D)	(D)
	Castings (rough and semifinished) ⁴ :			
332011	Iron (gray and malleable).....	..do.....	4.7	4.4
336100	Aluminum and aluminum-base alloy.....	Million lb.....	6.1	4.1
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)
265011	Paperboard containers and boxes including folding, corrugated, fiber, and setup.....		(X)	22.8
282140	Thermosetting resins.....	Mil. lb. (dry basis)..	1.6	.6
282130	Thermoplastic resins.....	..do.....	8.1	2.1
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	244.7
976000	Materials, parts, containers, and supplies, n.s.k. ³		(X)	173.0

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half of the unit of measurement shown.

¹No data are available on quantities of iron and steel castings produced and consumed in the same establishment.

²Included with material code 970099, "All other materials and components, parts, containers, and supplies consumed."

³This item represents the total cost of materials for establishments that did not report detailed materials data.

⁴Excludes quantities produced and consumed in the same establishment.

⁵Quantities produced and consumed in the same establishment totaled 3.2 thousand short tons in 1967. The comparable figure for 1972 is not available.

⁶Includes cost of materials indicated by symbol (D).

⁷Included with product code 331019, "All other carbon steel mill shapes and forms," to avoid disclosing operations of individual companies.

⁸Included with product code 335008, "All other aluminum mill shapes and forms," to avoid disclosing operations of individual companies.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3451.--SCREW MACHINE PRODUCTS					
	Purchased fuels and electric energy.....		(X)	10.2	(X)	9.4
	Purchased fuels, total.....		(X)	2.5	(X)	2.7
121005	Coal.....	1,000 s. tons.....	4.3	(Z)	1.7	(Z)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	149.7	.7	110.3	.4
291141	Distillate.....	...do.....	85.3	.5	101.0	.3
291151	Residual.....	...do.....	64.4	.2	10.8	.1
131300	Natural gas.....	Billion ft ³	2.6	1.5	1.2	.7
960011	Other fuels.....		(X)	.1	(X)	.2
975000	Fuels, n.s.k.....		(X)	.2	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	584.2	7.7	397.5	6.7
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.8	-	1.3	-
	INDUSTRY 3452.--BOLTS, NUTS, RIVETS, AND WASHERS					
	Purchased fuels and electric energy.....		(X)	22.3	(X)	17.1
	Purchased fuels, total.....		(X)	9.4	(X)	7.0
121005	Coal.....	1,000 s. tons.....	17.9	.2	47.0	.4
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	326.0	1.4	367.0	1.2
291141	Distillate.....	...do.....	120.9	.6	195.4	.7
291151	Residual.....	...do.....	205.1	.8	171.6	.5
131300	Natural gas.....	Billion ft ³	8.5	5.6	6.0	4.0
960011	Other fuels.....		(X)	.1	(X)	.2
975000	Fuels, n.s.k.....		(X)	2.0	(X)	1.2
960012	Purchased electric energy.....	Million kWh.....	894.3	12.9	753.6	10.1
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	5.1	-	3.4	-
	INDUSTRY 3462.--IRON AND STEEL FORGINGS					
	Purchased fuels and electric energy.....		(X)	38.4	(X)	34.7
	Purchased fuels, total.....		(X)	27.6	(X)	25.3
121005	Coal.....	1,000 s. tons.....	260.8	3.1	366.3	2.9
331212	Coke.....	...do.....	(S)	(Z)	.3	-
	Fuel oil, total.....	1,000 bbl (42 gal)	1,428.6	6.5	1,870.0	7.1
291141	Distillate.....	...do.....	836.7	3.8	1,018.0	4.2
291151	Residual.....	...do.....	591.9	2.7	852.0	2.9
131300	Natural gas.....	Billion ft ³	26.0	15.4	22.4	12.1
960011	Other fuels.....		(X)	.9	(X)	.5
975000	Fuels, n.s.k.....		(X)	1.7	(X)	2.8
960012	Purchased electric energy.....	Million kWh.....	848.4	10.8	745.9	9.4
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	8.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	14.4	-	15.5	-
	INDUSTRY 3463.--NONFERROUS FORGINGS					
	Purchased fuels and electric energy.....		(X)	9.3	(X)	6.9
	Purchased fuels, total.....		(X)	4.5	(X)	3.4
121005	Coal.....	1,000 s. tons.....	47.2	.4	46.3	.2
331212	Coke.....	...do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	101.0	.4	109.5	.3
291141	Distillate.....	...do.....	8.7	(Z)	60.7	.2
291151	Residual.....	...do.....	92.3	.4	48.8	.1
131300	Natural gas.....	Billion ft ³	7.2	3.3	3.6	2.6
960011	Other fuels.....		(X)	.2	(X)	.2
975000	Fuels, n.s.k.....		(X)	.1	(X)	.3
960012	Purchased electric energy.....	Million kWh.....	431.3	4.8	360.8	3.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	3.2	-	3.2	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3465.--AUTOMOTIVE STAMPINGS; INDUSTRY 3466.--CROWNS AND CLOSURES; and INDUSTRY 3469.--METAL STAMPINGS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	76.3	(X)	62.4
	Purchased fuels, total.....		(X)	25.5	(X)	20.6
121005	Coal.....	1,000 s. tons.....	331.4	3.9	408.3	3.0
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	529.7	2.6	680.0	2.3
291141	Distillate.....	...do.....	306.6	1.5	371.9	1.4
291151	Residual.....	...do.....	223.2	1.0	308.1	.9
131300	Natural gas.....	Billion ft ³	18.5	11.6	13.3	8.3
960011	Other fuels.....		(X)	2.8	(X)	1.8
975000	Fuels, n.s.k.....		(X)	4.6	(X)	5.2
960012	Purchased electric energy.....	Million kWh.....	3,824.0	50.8	3,229.5	41.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	10.8	-
	Total energy used for heat and power.....	Bil. kWh equiv....	15.1	-	10.9	-
	INDUSTRY 3471.--PLATING AND POLISHING					
	Purchased fuels and electric energy.....		(X)	34.0	(X)	27.4
	Purchased fuels, total.....		(X)	13.2	(X)	10.4
121005	Coal.....	1,000 s. tons.....	5.5	.1	25.4	.1
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	249.3	1.0	486.1	1.5
291141	Distillate.....	...do.....	172.4	.7	262.3	.9
291151	Residual.....	...do.....	76.9	.4	223.8	.6
131300	Natural gas.....	Billion ft ³	8.5	5.1	7.0	4.5
960011	Other fuels.....		(X)	1.3	(X)	.7
975000	Fuels, n.s.k.....		(X)	5.8	(X)	3.5
960012	Purchased electric energy.....	Million kWh.....	1,500.8	20.8	898.3	17.0
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.2	-
	Total energy used for heat and power.....	Bil. kWh equiv....	7.3	-	9.1	-
	INDUSTRY 3479.--METAL COATING AND ALLIED SERVICES					
	Purchased fuels and electric energy.....		(X)	11.6	(X)	10.8
	Purchased fuels, total.....		(X)	6.8	(X)	6.0
121005	Coal.....	1,000 s. tons.....	2.9	.1	.8	(Z)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	23.0	.1	144.7	.5
291141	Distillate.....	...do.....	22.6	.1	125.5	.4
291151	Residual.....	...do.....	.4	(Z)	19.2	.1
131300	Natural gas.....	Billion ft ³	4.8	3.3	5.3	2.6
960011	Other fuels.....		(X)	.2	(X)	.2
975000	Fuels, n.s.k.....		(X)	3.1	(X)	2.7
960012	Purchased electric energy.....	Million kWh.....	438.8	4.8	247.6	4.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	1.4	-
	Total energy used for heat and power.....	Bil. kWh equiv....	3.3	-	3.6	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

Ordnance and Accessories, N.E.C.

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EXPLANATORY TEXT

ORDNANCE AND ACCESSORIES, N.E.C.

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

3482—Small Arms Ammunition

3483—Ammunition, Except for Small Arms, N.E.C.

3484—Small Arms

3489—Ordnance and Accessories, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3482.—SMALL ARMS AMMUNITION

This industry comprises establishments primarily engaged in manufacturing ammunition for small arms having a bore of 30 mm (or 1.18 inches) and below. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in industry 3483, blasting and detonating caps and safety fuses in industry 2892, and fireworks in industry 2899. For a detailed list of products of industry 3482, refer to table 6A, product codes 34820 21 to 34820 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. However, the SIC code has been changed from 1961 to 3482.

Value of shipments and other receipts of the Small Arms Ammunition Industry in 1972 totaled \$438 million. This included shipments of small arms (primary products) valued at \$415 million, shipments of other products (secondary prod-

ucts) valued at \$8 million, and miscellaneous receipts (mainly sales of scrap and refuse) of \$15 million.

Shipments of small arms ammunition (primary products) in 1972 represented 98 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent.

Shipments of small arms ammunition (primary products) from establishments classified in industry 3482 in 1972 represented 98 percent (coverage ratio) of these products valued at \$423 million shipped by all industries. In 1967, the coverage ratio was 99 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3482, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3483.—AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C.

This industry comprises establishments primarily engaged in manufacturing ammunition, not elsewhere classified, or in loading and assembling ammunition over 30 mm (or over 1.18 inches) for naval, aircraft, antiaircraft, tank, coast, and field artillery, including component parts.

This industry also includes establishments primarily engaged in manufacturing bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts.

Establishments primarily engaged in manufacturing small arms ammunition are classified in industry 3482, explosives in industry 2892, and military pyrotechnics in industry 2899.

For a detailed list of products of industry 3483, refer to table 6A, product codes 34831 11 to 34833 31.

The 1972 definition of this industry is the same as that used in the 1967 classification system. However, the SIC code has been changed from 1929 to 3483.

Value of shipments and other receipts of the Ammunition, Except for Small Arms, N.E.C., Industry in 1972 totaled \$1,485 million. This included shipments of ammunition, except for small arms, n.e.c., (primary products) valued at \$1,145 million, shipments of other products (secondary

products) valued at \$175 million, and miscellaneous receipts (mainly contract work) of \$166 million.

Shipments of ammunition, except for small arms, n.e.c., (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent. Secondary products shipped by this industry in 1972 consisted mainly of ordnance and accessories, n.e.c., (\$28 million).

Shipments of ammunition, except for small arms, n.e.c., (primary products) from establishments classified in industry 3483 in 1972 represented 88 percent (coverage ratio) of these products valued at \$1,303 million shipped by all industries. In 1967, the coverage ratio was 85 percent. Other industries shipping ammunition, except for small arms, n.e.c., consisted mainly of industry 3662, Radio and TV Communication Equipment (\$14 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3483, these establishments accounted for less than 1 percent of value of shipments.

INDUSTRY 3484.—SMALL ARMS

This industry comprises establishments primarily engaged in manufacturing small firearms having a bore 30 mm (or 1.18 inches) and below, and parts for small firearms. This industry also includes establishments primarily engaged in manufacturing certain weapons over 30 mm which are carried and employed by the individual, such as grenade launchers and heavy field machine guns.

Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 mm (or over 1.18 inches) and component parts are classified in industry 3489.

For a detailed list of products of industry 3484, refer to table 6A, product codes 34841 21 to 34842 81.

The 1972 definition of this industry is the same as that used in the 1967 classification system. However, the SIC number has been changed from 1951 to 3484.

Value of shipments and other receipts of the Small Arms Industry in 1972 totaled \$394 million. This included shipments of small arms (primary products) valued at \$329 million, shipments of other products (secondary products) valued at \$32 million, and miscellaneous receipts (mainly resales) of \$32 million.

Shipments of small arms (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent.

Shipments of small arms (primary products) from establishments classified in industry 3484 in 1972 represented 98 percent (coverage ratio) of these products valued at \$334 million shipped by all industries. In 1967, the coverage ratio was 94 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3484, these establishments accounted for 1 percent of value of shipments.

INDUSTRY 3489.—ORDNANCE AND ACCESSORIES, N.E.C.

This industry comprises establishments primarily engaged in manufacturing ordnance and accessories, not elsewhere classified, such as naval, aircraft, antiaircraft, tank, coast, and field artillery having a bore over 30 mm (or over 1.18 inches) and components.

Establishments primarily engaged in manufacturing small arms and parts 30 mm (or 1.18 inches) and below are classified in industry 3484, tanks in industry 3795, and guided missiles in SIC group 376.

For a detailed list of products of industry 3489, refer to table 6A, product codes 34891 11 to 34892 11.

Industry 3489, as classified under the 1972 edition of the SIC manual, is a combination of industries 1911 and 1999 in the previous classification system.

Value of shipments and other receipts of the Ordnance and Accessories, N.E.C., Industry in 1972 totaled \$478 million. This included shipments of ordnance and accessories, n.e.c. (primary products) valued at \$326 million, shipments of other products (secondary products) valued at \$65 million, and miscellaneous receipts (mainly contract work) of \$86 million.

Shipments of ordnance and accessories, n.e.c., (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 80 percent.

Shipments of ordnance and accessories, n.e.c., (primary products) from establishments classified in industry 3489 in 1972 represented 72 percent (coverage ratio) of these products valued at \$455 million shipped by all industries. In 1967, the

EXPLANATORY TEXT—Continued

coverage ratio was 61 percent. Other industries shipping ordnance and accessories, n.e.c., consisted mainly of industry 3769, Space Vehicle Equipment, N.E.C. (\$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small

number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3489, these establishments accounted for 3 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3482.--SMALL ARMS AMMUNITION															
1972 Census.....	62	25	13.9	129.3	10.4	21.0	88.3	228.6	218.4	438.0	10.8	(NA)	144.7	98	98
1971 ASM.....	(NA)	(NA)	14.4	124.0	10.4	19.9	84.6	207.1	186.8	381.9	16.3	288.6	144.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	20.6	161.9	15.1	28.5	112.3	251.9	258.9	534.8	11.1	285.7	145.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	26.6	204.8	19.2	38.1	138.7	314.9	345.7	651.1	13.4	257.1	177.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	25.2	185.1	19.0	38.4	130.1	294.8	318.5	610.0	19.5	243.1	166.4	(NA)	(NA)
1967 Census.....	44	17	25.2	173.3	19.7	39.0	123.7	286.3	320.9	595.9	12.6	225.7	153.8	97	99
1966 ASM.....	(NA)	(NA)	19.1	142.3	16.6	34.6	113.1	232.1	247.4	467.9	8.2	(NA)	115.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.5	65.6	8.6	16.9	49.7	125.6	111.6	236.6	4.8	(NA)	77.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.3	58.3	7.6	15.6	44.2	118.7	93.9	208.9	5.5	139.5	71.8	(NA)	(NA)
1963 Census.....	31	13	8.9	51.9	7.1	14.1	38.1	103.8	85.7	192.5	5.5	134.8	63.5	85-99	92
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	126.7	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	24	12	9.0	44.2	5.7	11.3	26.0	82.7	75.7	167.4	4.2	(NA)	130.2	(NA)	94
INDUSTRY 3483.--AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C.															
1972 Census.....	94	76	54.8	487.1	36.7	73.0	277.7	676.4	832.6	1,485.4	40.4	(NA)	194.5	87	88
1971 ASM.....	(NA)	(NA)	55.7	459.9	38.1	71.7	268.1	668.2	581.1	1,288.9	29.5	283.1	144.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	88.8	652.6	63.2	118.5	403.1	1,165.5	826.1	2,020.3	24.0	320.6	172.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	134.9	962.2	99.8	189.0	609.2	1,700.8	1,889.5	3,637.1	41.3	438.5	419.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	132.0	933.9	101.6	198.9	625.7	1,631.7	1,932.2	3,553.3	40.4	416.9	678.3	(NA)	(NA)
1967 Census.....	99	86	101.7	705.8	76.8	157.7	474.1	1,118.6	1,401.1	2,464.2	42.5	314.0	399.1	92	85
1966 ASM.....	(NA)	(NA)	48.3	312.7	38.3	76.4	217.4	476.0	580.6	1,023.4	15.4	(NA)	163.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	29.4	187.3	21.9	44.1	122.8	242.3	260.2	500.4	8.2	(NA)	91.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	26.2	170.8	18.9	37.7	108.0	243.8	151.6	397.1	9.7	82.6	93.5	(NA)	(NA)
1963 Census.....	44	34	32.6	202.2	25.1	49.0	137.7	285.8	210.2	503.0	7.6	79.4	44.4	70	82
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	74.5	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	50	37	11.3	59.1	7.2	14.2	34.3	87.0	52.4	138.4	6.2	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3484.--SMALL ARMS															
1972 Census.....	82	41	16.1	152.1	11.5	23.1	100.5	278.6	122.1	393.5	11.3	(NA)	96.4	91	98
1971 ASM.....	(NA)	(NA)	16.9	149.0	12.2	24.5	93.7	249.6	129.1	379.7	9.6	150.7	88.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	20.5	163.3	14.7	29.4	102.4	287.9	154.3	452.1	11.1	145.9	91.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	23.2	175.7	16.7	33.8	111.9	304.5	166.4	462.2	12.8	134.6	103.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	20.3	155.9	14.9	32.5	103.3	284.9	164.7	446.9	12.5	119.4	93.0	(NA)	(NA)
1967 Census.....	71	32	17.4	124.3	13.1	27.4	83.3	226.6	165.0	384.0	11.2	110.4	84.4	92	94
1966 ASM.....	(NA)	(NA)	15.4	105.5	11.4	24.2	69.4	197.1	97.1	274.0	10.0	(NA)	80.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.5	66.8	8.0	16.4	47.0	118.4	56.7	166.2	6.0	(NA)	46.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	*10.5	*62.8	*7.8	*16.2	*46.1	*123.7	*37.7	*155.1	*4.5	70.4	*44.9	(NA)	(NA)
1963 Census.....	52	23	10.0	57.3	7.5	15.1	39.3	88.3	43.0	133.0	5.1	68.7	36.0	95	82
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	67.2	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	34	23	8.0	39.2	5.8	11.6	27.2	51.0	20.4	79.1	2.1	(NA)	35.7	91	81
INDUSTRY 3489.--ORDNANCE AND ACCESSORIES, N.E.C.															
1972 Census ²	76	36	24.6	254.8	14.5	27.5	124.8	380.9	133.3	477.7	15.0	(NA)	75.5	83	72
1971 ASM.....	(NA)	(NA)	30.0	285.8	17.0	32.1	138.0	400.4	150.4	562.2	15.4	219.4	53.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	37.5	334.7	22.8	44.9	170.7	452.6	259.5	744.7	15.0	215.1	85.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	42.0	342.4	27.0	52.1	187.6	516.4	324.1	834.8	17.2	(NA)	111.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	44.9	346.6	29.7	58.3	194.3	501.7	374.5	887.0	17.9	(NA)	107.4	(NA)	(NA)
1967 Census.....	98	62	36.9	284.4	22.6	46.5	147.9	409.1	275.7	687.5	17.7	(NA)	91.6	80	61
1966 ASM.....	(NA)	(NA)	40.5	306.4	23.9	48.8	155.9	407.3	225.2	609.1	33.6	(NA)	87.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	37.0	274.4	22.1	45.0	144.6	354.8	165.8	526.7	27.9	(NA)	54.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	26.3	190.4	15.4	29.8	96.4	252.5	118.1	355.5	23.5	272.5	55.3	(NA)	(NA)
1963 Census.....	60	37	25.0	176.2	15.1	30.7	93.7	235.2	115.4	351.0	12.3	250.8	43.3	78	69
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	202.7	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	51	26	15.5	94.8	10.2	21.3	56.4	158.5	39.3	199.7	10.8	(NA)	(NA)	(NA)	(NA)

See footnotes on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 Industry 3482	1972 Industry 3483	1972 Industry 3484	1972 Industry 3489	1967 Industry 1911	1967 Industry 1999
1972.....	57	77	75	75	(X)	(X)
1967.....	39	82	69	(X)	9	87
1963.....	27	38	52	(X)	(NA)	54

Although 1972 industry 3489 is a combination of 1967 industries 1911 and 1999, the number of companies is not separately available for 1967 and 1963 on the new SIC basis.

(X) Not applicable. (NA) Not available. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²The 1972 data are not strictly comparable to 1971 and prior years because of revisions in the 1972 Standard Industrial Classification. For 1972, these statistics are the totals for industry 3489 on the new SIC basis. For 1971 and prior years, they are the combined totals for industries 1911 and 1999 as classified on the old SIC basis. Because of changes in the product mix for several plants classified in these industries, the 1972 establishment count for industry 3489 on the new SIC basis is not necessarily identical to the combined establishment count for industries 1911 and 1999 on the old SIC basis. (See table 1C.) However, the effect of these changes is estimated to be less than 1 percent of the total value of shipments for 1972 industry 3489.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3482.--SMALL ARMS AMMUNITION											
1972 Census.....	9,302	(NA)	75	2,019	4.20	.50	.79	(NA)	16,446	57	10.89
1971 ASM.....	8,611	20,040	72	1,913	4.25	.50	.81	.76	14,382	60	10.41
1970 ASM.....	7,859	13,870	73	1,887	3.94	.48	.79	.53	12,228	64	8.84
1969 ASM.....	7,699	9,670	72	1,984	3.64	.53	.85	.39	11,838	65	8.27
1968 ASM.....	7,345	9,650	75	2,021	3.39	.52	.83	.40	11,698	63	7.68
1967 Census.....	6,877	8,960	78	1,980	3.17	.54	.83	.38	11,361	61	7.34
1966 ASM.....	7,435	(NA)	86	2,090	3.27	.53	.83	(NA)	12,123	61	6.71
1965 ASM.....	6,254	(NA)	82	1,964	2.95	.47	.75	(NA)	11,975	52	7.44
1964 ASM.....	6,247	15,000	81	2,061	2.84	.45	.73	.67	12,717	49	7.62
1963 Census.....	5,825	14,240	79	1,994	2.71	.45	.72	.70	11,648	50	7.37
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	4,886	(NA)	63	1,990	2.30	.45	.72	(NA)	9,143	53	7.32
INDUSTRY 3483.--AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C.											
1972 Census.....	8,889	(NA)	67	1,989	3.80	.56	.89	(NA)	12,343	72	9.27
1971 ASM.....	8,257	5,080	68	1,882	3.74	.45	.81	.21	11,996	69	9.32
1970 ASM.....	7,349	3,610	71	1,875	3.40	.41	.73	.16	13,125	56	9.84
1969 ASM.....	7,133	3,250	74	1,894	3.22	.52	.78	.12	12,608	57	9.00
1968 ASM.....	7,075	3,160	77	1,958	3.15	.54	.81	.12	12,361	57	8.20
1967 Census.....	6,940	3,090	76	2,053	3.01	.57	.86	.13	10,999	63	7.09
1966 ASM.....	6,474	(NA)	79	1,995	2.85	.57	.87	(NA)	9,855	66	6.23
1965 ASM.....	6,303	(NA)	75	2,014	2.79	.52	.90	(NA)	8,089	78	5.33
1964 ASM.....	6,526	3,150	72	1,995	2.86	.38	.81	.21	9,312	70	6.46
1963 Census.....	6,207	2,440	77	1,954	2.81	.42	.82	.16	8,772	71	5.84
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	5,213	(NA)	63	1,988	2.41	.38	.80	(NA)	7,680	68	6.11

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3484.--SMALL ARMS											
1972 Census.....	9,447	(NA)	71	2,009	4.35	.31	.70	(NA)	17,304	55	12.06
1971 ASM.....	8,817	8,920	72	2,008	3.82	.34	.73	.40	14,769	60	10.19
1970 ASM.....	7,966	7,120	72	2,000	3.48	.34	.70	.32	14,044	57	9.79
1969 ASM.....	7,573	5,800	72	2,024	3.31	.36	.74	.29	13,125	58	9.01
1968 ASM.....	7,680	5,880	73	2,181	3.18	.37	.72	.27	14,034	55	8.77
1967 Census.....	7,144	6,340	75	2,092	3.04	.43	.75	.29	13,023	55	8.27
1966 ASM.....	6,841	(NA)	74	2,116	2.87	.35	.74	(NA)	12,786	54	8.15
1965 ASM.....	6,351	(NA)	76	2,045	2.86	.34	.74	(NA)	11,250	56	7.21
1964 ASM.....	5,975	6.70	75	2,061	2.85	.24	.65	.45	11,778	51	7.65
1963 Census.....	5,738	6.87	75	2,012	2.60	.32	.75	.52	8,835	65	5.85
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	4,896	(NA)	73	1,989	2.35	.26	.75	(NA)	6,368	77	4.40
INDUSTRY 3489.--ORDNANCE AND ACCESSORIES, N.E.C.											
1972 Census ¹	10,358	(NA)	59	1,897	4.54	.28	.81	(NA)	15,484	67	13.85
1971 ASM.....	9,527	7,310	57	1,888	4.30	.27	.78	.39	13,347	71	12.47
1970 ASM.....	8,925	5,704	61	1,969	3.80	.35	.80	.29	12,069	74	10.08
1969 ASM.....	8,152	(NA)	64	1,930	3.60	.39	.80	(NA)	12,295	66	9.91
1968 ASM.....	7,719	(NA)	66	1,963	3.33	.42	.81	(NA)	11,174	69	8.61
1967 Census.....	7,707	(NA)	61	2,058	3.18	.40	.81	(NA)	11,087	70	8.80
1966 ASM.....	7,565	(NA)	59	2,042	3.19	.37	.87	(NA)	10,057	75	8.35
1965 ASM.....	7,408	(NA)	60	2,037	3.21	.31	.84	(NA)	9,578	77	7.88
1964 ASM.....	7,232	10.36	59	1,931	3.24	.33	.87	.77	9,589	75	8.48
1963 Census.....	7,050	10.03	61	2,027	3.05	.33	.33	.71	9,413	75	7.66
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	6,096	(NA)	66	2,083	2.65	.20	.67	(NA)	10,193	60	7.46

(NA) Not available.

¹The 1972 data are not strictly comparable to 1971 and prior years. (See footnote 2, table 1A.)

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufac- ture	Value of shipments	Establishments		All employees	Value added by manufac- ture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3489.--Ordnance and Accessories, N.E.C.....	76	36	24.6	380.9	477.7	(X)	(X)	(X)	(X)	(X)
Old industry 1911.--Guns, Howitzers, and Mortars.....	13	3	3.5	53.6	67.6	13	3	3.5	53.6	67.6
Old industry 1999.--Ordnance and Accessories, N.E.C.....	63	33	21.1	327.3	410.1	60	32	(D)	(D)	(D)

(X) Not applicable.

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ²	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3482-- SMALL ARMS AMMUNITION													
UNITED STATES	62	25	13.9	129.3	10.4	21.0	88.3	228.6	218.4	438.0	10.8	25.2	286.3
NORTHEAST REGION.	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	6	3	.2	.8	.1	.2	.5	1.9	5.0	6.9	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	21	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	13	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	12	4	1.6	11.2	1.3	2.9	8.2	26.4	19.4	40.7	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	6	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	17	3	.5	3.5	.3	.7	2.1	8.3	4.6	12.5	(D)	(NA)	(NA)
MOUNTAIN DIVISION	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDAHO	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3483-- AMMUNITION, EXC. SMALL ARMS, NEC													
UNITED STATES	94	76	54.8	487.1	36.7	73.0	277.7	676.4	832.6	1 485.4	40.4	101.7	1 118.6
NORTHEAST REGION.	18	18	7.0	65.1	5.8	12.4	48.1	81.6	142.8	214.1	1.6	(NA)	(NA)
NEW ENGLAND DIVISION.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	15	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	10	10	4.0	34.5	3.3	7.0	27.0	41.0	95.1	131.6	1.2	(NA)	(NA)
NORTH CENTRAL REGION.	29	23	25.0	229.7	15.0	28.1	115.4	334.2	435.2	764.3	25.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	19	14	11.4	90.7	7.0	12.7	53.8	122.8	175.8	306.5	(D)	(NA)	(NA)
INDIANA	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	10	9	13.6	139.0	8.0	15.4	61.6	211.3	259.4	457.8	(D)	(NA)	(NA)
MINNESOTA	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IOWA	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA.	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS.	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	26	21	15.8	119.8	11.2	22.7	72.7	160.7	158.9	312.4	7.7	(NA)	(NA)
SOUTH ATLANTIC DIVISION	9	5	1.5	9.5	1.1	2.0	5.7	17.0	15.0	29.8	1.8	(NA)	(NA)
MARYLAND.	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	5	5	3.8	30.8	2.6	5.4	18.8	37.6	27.2	64.9	.8	(NA)	(NA)
TENNESSEE	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	12	11	10.5	79.5	7.5	15.3	48.2	106.2	116.8	217.7	5.1	(NA)	(NA)
LOUISIANA	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION	21	14	7.1	72.5	4.6	9.8	41.5	99.9	95.6	194.7	5.3	(NA)	(NA)
MOUNTAIN DIVISION	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	18	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	18	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3484-- SMALL ARMS													
UNITED STATES	82	41	16.1	152.1	11.5	23.1	100.5	278.6	122.1	393.5	11.3	17.4	226.6
NORTHEAST REGION.	38	29	15.0	143.5	10.6	21.4	94.3	258.0	108.4	360.4	(D)	(NA)	(NA)
NEW ENGLAND DIVISION.	25	21	11.9	115.3	8.0	16.3	71.9	191.4	75.9	265.2	6.4	(NA)	(NA)
MAINE	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VERMONT	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT	13	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3484-- SMALL ARMS--CONTINUED													
NORTHEAST REGION--CONTINUED													
MIDDLE ATLANTIC DIVISION.	13	8	3.1	28.2	2.6	5.0	22.4	66.6	32.5	95.2	4.3	(NA)	(NA)
NEW YORK.	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.E1	14	5	.3	2.3	.2	.4	1.4	6.4	5.9	11.4	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	23	6	.7	5.6	.6	1.2	4.3	12.0	6.9	18.5	.4	(NA)	(NA)
MOUNTAIN DIVISION.	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO.	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	16	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3489-- ORDNANCE AND ACCESSORIES, NEC													
UNITED STATES.	76	36	24.6	254.8	14.5	27.5	124.8	380.9	133.3	477.7	15.0	36.9	409.1
NORTHEAST REGION.	18	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION.	14	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA.	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION.	20	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION.E1	15	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO.	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS.E5	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION.	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA.	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI.	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	16	10	3.0	27.1	2.2	4.0	15.5	40.0	41.1	80.7	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION.E2	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA.E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION.	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION.	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS.	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	22	7	7.1	79.2	4.0	7.9	38.0	109.4	37.1	144.9	3.6	(NA)	(NA)
MOUNTAIN DIVISION.	6	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO.	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	16	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	14	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Small arms ammunition (SIC 3482)	Ammunition except for small arms, n.e.c. (SIC 3483)	Small arms (SIC 3484)	Ordnance and accessories, n.e.c. (SIC 3489)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	98	87	91	83
COVERAGE RATIO ² DO	98	88	98	72
ESTABLISHMENTS, TOTAL NUMBER	62	94	82	76
WITH 1 TO 19 EMPLOYEES DO	37	18	41	40
WITH 20 TO 99 EMPLOYEES DO	12	16	19	12
WITH 100 EMPLOYEES OR MORE DO	13	60	22	24
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	13.9	54.8	16.1	24.6
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	129.3	487.1	152.1	254.8
PRODUCTION WORKERS:				
AVERAGE FOR YEAR 1,000	10.4	36.7	11.5	14.5
MARCH DO	10.1	35.8	11.3	14.5
MAY DO	10.4	34.1	11.5	14.4
AUGUST DO	10.6	36.8	11.5	14.4
NOVEMBER DO	10.7	40.0	11.5	14.5
MAN-HOURS MILLIONS	21.0	73.0	23.1	27.5
JANUARY-MARCH DO	5.3	17.5	5.9	6.9
APRIL-JUNE DO	5.4	17.2	6.1	6.9
JULY-SEPTEMBER DO	5.2	18.4	5.4	6.6
OCTOBER-DECEMBER DO	5.2	19.8	5.7	7.0
WAGES MILLION DOLLARS	88.3	277.7	100.5	124.8
COST OF MATERIALS, ETC., TOTAL DO	218.4	832.6	122.1	133.3
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED DO	207.8	725.9	98.5	117.0
COST OF RESALES DO	5.2	37.3	16.6	2.8
FUELS CONSUMED DO	1.8	31.5	1.9	2.3
PURCHASED ELECTRIC ENERGY DO	3.1	27.5	2.8	6.0
CONTRACT WORK DO	.5	10.4	2.2	5.3
VALUE OF SHIPMENTS, INCLUDING RESALES DO	438.0	1 485.4	393.5	477.7
VALUE OF RESALES DO	6.7	47.9	18.7	4.1
VALUE ADDED BY MANUFACTURE DO	228.6	676.4	278.6	380.9
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL DO	144.7	149.2	88.1	33.1
FINISHED PRODUCTS DO	38.3	29.5	23.0	1.9
WORK IN PROCESS DO	26.4	63.5	51.4	25.4
MATERIALS, SUPPLIES, FUEL, ETC. DO	80.0	56.2	13.7	5.9
END OF YEAR, TOTAL DO	147.3	194.5	96.4	75.5
FINISHED PRODUCTS DO	45.3	39.1	22.8	5.9
WORK IN PROCESS DO	28.5	77.5	58.8	57.9
MATERIALS, SUPPLIES, FUEL, ETC. DO	73.6	77.8	14.8	11.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	11.8	41.8	12.0	15.4
NEW PLANT AND EQUIPMENT, TOTAL DO	10.8	40.4	11.3	15.0
NEW STRUCTURES AND ADDITIONS TO PLANT DO	3.5	19.5	1.5	6.6
NEW MACHINERY AND EQUIPMENT DO	7.3	20.9	9.7	8.4
USED PLANT AND EQUIPMENT DO	1.0	1.4	.8	.4

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3482-- SMALL ARMS AMMUNITION											
ESTABLISHMENTS, TOTAL.	62	13.9	129.3	10.4	21.0	88.3	228.6	218.4	438.0	10.8	147.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	26	(Z)	.6	(Z)	.1	.4	1.6	1.5	3.1	(Z)	1.0
5 TO 9 EMPLOYEES	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES	6	.1	.7	.1	.1	.5	1.7	1.0	2.6	.2	.4
20 TO 49 EMPLOYEES	7	.2	1.8	.2	.3	1.2	5.7	7.0	12.2	.9	2.5
50 TO 99 EMPLOYEES	5	.3	1.7	.2	.3	1.1	2.7	3.4	5.9	.1	.8
100 TO 249 EMPLOYEES	4	.7	4.7	.5	1.0	3.0	7.3	8.3	14.8	.7	3.9
250 TO 499 EMPLOYEES	2	2.2	17.6	1.7	3.8	12.4	39.1	30.0	64.9	1.8	21.0
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	3	10.4	102.4	7.7	15.3	69.9	170.6	167.1	334.5	7.1	117.8
2,500 EMPLOYEES OR MORE.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	19	(Z)	.3	(Z)	.1	.2	1.0	.9	1.9	(Z)	.5
3483-- AMMUNITION, EXC. SMALL ARMS, NEC											
ESTABLISHMENTS, TOTAL.	94	54.8	487.1	36.7	73.0	277.7	676.4	832.6	1 485.4	40.4	194.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	10	(Z)	.1	(Z)	(Z)	.1	.2	.1	.3	(Z)	(Z)
5 TO 9 EMPLOYEES	6	(Z)	.5	(Z)	(Z)	.3	1.2	.7	2.0	.2	.2
10 TO 19 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 TO 49 EMPLOYEES	8	.3	2.4	.2	.5	1.5	3.7	6.0	9.8	(D)	.9
50 TO 99 EMPLOYEES	8	.6	4.1	.5	.9	2.6	7.7	4.9	12.2	.1	1.5
100 TO 249 EMPLOYEES	13	2.3	20.3	2.0	4.2	14.6	26.5	47.5	72.5	.8	13.9
250 TO 499 EMPLOYEES	21	8.1	69.5	6.2	12.6	44.7	100.0	108.0	201.8	4.7	41.9
500 TO 999 EMPLOYEES	11	7.3	67.0	5.0	10.2	38.8	103.4	118.2	216.4	4.6	27.0
1,000 TO 2,499 EMPLOYEES	9	13.6	120.0	8.9	18.7	73.4	136.8	268.0	396.1	20.1	142.0
2,500 EMPLOYEES OR MORE.	6	22.5	203.1	13.7	25.9	101.6	297.0	279.2	574.4	9.9	123.3
ESTABS. COVERED BY ADMIN. RECORD ¹ .	10	(Z)	.2	(Z)	(Z)	.1	.3	.4	.7	(Z)	.1
3484-- SMALL ARMS											
ESTABLISHMENTS, TOTAL.	82	16.1	152.1	11.5	23.1	100.5	278.6	122.1	393.5	11.3	96.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	22	.1	.4	(Z)	.1	.2	1.7	.8	2.5	.1	.6
5 TO 9 EMPLOYEES	11	.1	.5	(Z)	.1	.3	1.1	.5	1.5	.1	.3
10 TO 19 EMPLOYEES	8	.1	.7	.1	.1	.4	1.5	.5	2.1	(D)	.7
20 TO 49 EMPLOYEES	16	.5	4.2	.4	.7	2.7	8.4	6.9	14.6	.5	3.5
50 TO 99 EMPLOYEES	3	.2	1.5	.2	.3	1.1	3.0	1.4	4.5	.1	.6
100 TO 249 EMPLOYEES	7	1.2	11.6	1.0	2.0	7.6	26.5	9.8	35.0	2.4	9.6
250 TO 499 EMPLOYEES	6	1.8	15.9	1.6	3.4	13.3	32.1	14.1	46.2	1.2	8.4
500 TO 999 EMPLOYEES	4	2.7	22.3	2.2	4.4	17.8	44.6	24.2	66.5	1.2	19.2
1,000 TO 2,499 EMPLOYEES	5	9.3	95.0	5.9	12.0	56.9	159.7	64.0	220.8	6.6	53.6
ESTABS. COVERED BY ADMIN. RECORD ¹ .	19	.1	.4	(Z)	.1	.3	1.8	.9	2.7	.1	.5
3489-- ORDNANCE AND ACCESSORIES, NEC											
ESTABLISHMENTS, TOTAL.	76	24.6	254.8	14.5	27.5	124.8	380.9	133.3	477.7	15.0	75.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	27	(Z)	.5	(Z)	.1	.3	.8	.4	1.2	1.7	.1
5 TO 9 EMPLOYEES	5	(Z)	.2	(Z)	(Z)	.1	.6	.3	1.1	(D)	.3
10 TO 19 EMPLOYEES	8	.1	1.0	.1	.1	.5	3.3	1.5	4.9	(D)	.4
20 TO 49 EMPLOYEES	5	.2	1.3	.1	.3	.8	3.2	2.1	5.0	(D)	1.0
50 TO 99 EMPLOYEES	7	.5	3.7	.4	.6	2.5	8.0	6.6	14.3	.2	1.1
100 TO 249 EMPLOYEES	11	1.9	15.4	1.4	2.6	9.2	29.5	25.5	54.4	1.4	4.9
250 TO 499 EMPLOYEES	6	2.7	19.1	2.2	4.4	12.7	30.6	46.6	75.3	2.3	11.2
500 TO 999 EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES	3	5.8	68.5	2.7	5.5	27.5	112.2	36.1	126.4	9.5	36.1
2,500 EMPLOYEES OR MORE.	3	13.3	145.1	7.4	13.8	71.1	192.7	14.3	195.1	(D)	20.3
ESTABS. COVERED BY ADMIN. RECORD ¹ .	22	(Z)	.4	(Z)	.1	.2	.8	.4	1.2	(Z)	.2

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balance of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3482	SMALL ARMS AMMUNITION										
	ENTIRE INDUSTRY	62	13.9	129.3	10.4	21.0	88.3	228.6	218.4	438.0	10.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	58	13.7	127.9	10.3	20.7	87.4	225.3	216.5	432.9	10.8
3483	AMMUNITION, EXC. FOR SMALL ARMS, NEC										
	ENTIRE INDUSTRY	94	54.8	487.1	36.7	73.0	277.7	676.4	832.6	1 485.4	40.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	68	32.4	268.4	23.2	46.9	174.4	378.6	581.8	955.2	10.3
34831	ARTILLERY AMMUNITION OVER 30MM (OR 1.18 INCHES) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	41	27.6	220.9	19.7	39.3	142.8	337.1	468.2	776.7	8.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	29	19.1	150.4	13.9	27.6	100.5	239.1	389.7	613.1	5.5
34832	RECEIPTS FOR AMMUNITION LOADING OR ASSEMBLY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34833	AMMUNITION, EXC. FOR SMALL ARMS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	32	18.1	188.7	11.7	24.1	95.2	261.5	294.4	552.8	9.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	22	8.8	82.3	6.8	14.4	54.2	106.8	155.0	264.0	3.9
3484	SMALL ARMS										
	ENTIRE INDUSTRY	82	16.1	152.1	11.5	23.1	100.5	278.6	122.1	393.5	11.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	74	13.0	121.7	9.8	19.5	86.9	228.8	102.3	324.3	10.6
34841	MACHINE GUNS, 30MM (1.18 INCHES) AND UNDER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34842	SMALL ARMS, 30MM (1.18 INCHES) AND UNDER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	45	13.2	123.0	9.9	19.9	88.2	228.6	102.2	324.2	10.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	40	12.8	119.8	9.6	19.2	85.8	224.2	100.3	317.8	10.4
3489	ORDNANCE AND ACCESSORIES, NEC										
	ENTIRE INDUSTRY	76	24.6	254.8	14.5	27.5	124.8	380.9	133.3	477.7	15.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	65	13.1	131.0	7.6	14.2	59.4	210.5	89.4	266.7	7.8
34891	GUNS, HOWITZERS, MORTARS, ETC., OVER 30MM (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34892	ORDNANCE AND ACCESSORIES, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	58	15.6	160.1	9.0	17.0	72.4	247.3	112.3	327.5	8.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	49	12.5	126.7	7.1	13.4	56.7	198.9	84.2	250.3	7.5

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3482	Small arms ammunition (30 mm and under)...1972..	438.0	414.9	7.9	15.2	98	422.6	414.9	7.7	98
	1967..	595.9	564.9	18.5	12.5	97	572.8	564.9	7.9	99
3483	Ammunition, except for small arms, n.e.c..1972..	1,485.4	1,144.6	175.2	165.6	87	1,303.2	1,144.6	158.6	88
	1967..	2,464.2	2,102.4	186.9	174.9	92	2,462.0	2,102.4	359.6	85
3484	Small arms.....1972..	393.5	328.6	32.4	32.5	91	334.1	328.6	5.5	98
	1967..	384.0	340.8	27.9	15.3	92	361.7	340.8	20.9	94
3489	Ordnance and accessories, n.e.c.....1972..	477.7	326.5	65.2	86.0	83	454.9	326.5	128.4	72
	1967..	687.5	522.7	127.2	37.6	80	857.6	522.7	334.9	61

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Small arms ammunition (SIC 3482)	Ammunition except for small arms, n.e.c. (SIC 3483)	Small arms (SIC 3484)	Ordnance and accessories, n.e.c. (SIC 3489)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	438.0	1,485.4	393.5	477.7	(X)
34820	Small arms ammunition (30 mm and under).....	422.6	414.9	(under 2)	(under 2)	-	5.9
3483	Ammunition, except for small arms, n.e.c.....	1,303.2	-	1,144.6	-	-	158.6
34831	Artillery ammunition over 30 mm (or over 1.18 inches).....	764.1	-	725.5	-	-	38.6
34832	Receipts for ammunition load- ing and assembly, over 30 mm..						
34833	Ammunition, except for small arms, n.e.c.....	535.2	-	415.9	-	-	119.3
34830	Ammunition, except for small arms, n.s.k.....	3.9	-	3.3	-	-	.6
3484	Small arms.....	334.1	(under 2)	(under 2)	328.6	(under 2)	4.5
34841	Machine guns, 30 mm and under (or 1.18 inches and under)....						
34842	Small arms, 30 mm and under (or 1.18 inches and under)....	334.1	(under 2)	(under 2)	328.6	(under 2)	4.5
34840	Small arms, n.s.k.....						
3489	Ordnance and accessories, n.e.c..	454.9	(2-5)	27.8	(10-20)	326.5	76.3
34891	Guns, howitzers, mortars, and related equipment over 33 mm..	44.3	-	(under 2)	-	(over 2)	(over 2)
34892	Ordnance and accessories, n.e.c.....	402.4	(2-5)	(over 2)	(10-20)	(over 2)	70.1
34890	Ordnance and accessories, n.s.k.....	8.2	-	-	-	8.2	-

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Small arms ammunition (SIC 3482)	Ammunition except for small arms, n.e.c. (SIC 3483)	Small arms (SIC 3484)	Ordnance and accessories, n.e.c. (SIC 3489)	Other industries
	Shipments and miscellaneous receipts--Continued						
	Other product shipments by 4-digit product group:						
2899	Chemical preparations, n.e.c...	(X)	-	(10-20)	-	-	(X)
3079	Miscellaneous plastics products	(X)	-	(2-5)	-	-	(X)
3443	Fabricated platework (boiler-shops).....	(X)	-	(over 2)	-	-	(X)
3465	Automotive stampings.....	(X)	-	(over 2)	(under 2)	-	(X)
3469	Metal stampings, n.e.c.....	(X)	(under 2)	(2-5)	(under 2)	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	(over 2)	-	-	(X)
3497	Metal foil and leaf.....	(X)	-	(over 2)	-	-	(X)
3499	Fabricated metal products, n.e.c.	(X)	-	(2-5)	(under 2)	-	(X)
3511	Turbines and turbine generator sets.....	(X)	-	-	-	(over 2)	(X)
3532	Mining machinery.....	(X)	-	(2-5)	-	-	(X)
3533	Oilfield machinery.....	(X)	-	(over 2)	-	(over 2)	(X)
3559	Special industry machinery, n.e.c.....	(X)	(under 2)	(2-5)	-	(2-5)	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	(under 2)	(under 2)	(under 2)	(2-5)	(X)
3662	Radio and TV communication equipment.....	(X)	-	(over 2)	-	-	(X)
3679	Electronic components, n.e.c...	(X)	-	(2-5)	-	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	(under 2)	(5-10)	-	(X)
3728	Aircraft equipment, n.e.c.....	(X)	-	(5-10)	-	(under 2)	(X)
3764	Space propulsion units, parts..	(X)	-	(5-10)	-	-	(X)
3769	Space vehicle equipment, n.e.c.	(X)	-	5.7	(over 2)	(over 2)	(X)
3795	Tanks and tank components.....	(X)	-	(2-5)	-	-	(X)
3811	Engineering and scientific instruments.....	(X)	-	(over 2)	-	-	(X)
3829	Measuring and controlling devices, n.e.c.....	(X)	-	(over 2)	-	-	(X)
	Miscellaneous receipts.....	(X)	15.2	165.6	32.5	86.0	(X)
	Contract work.....	(X)	(under 2)	(50-100)	1.9	(50-100)	(X)
	Sales of scrap and refuse.....	(X)	7.3	21.1	(under 2)	.5	(X)
	Receipts for installation.....	(X)	-	-	-	.1	(X)
	Products bought and resold.....	(X)	6.7	(20-50)	18.7	(2-5)	(X)
	Other miscellaneous receipts...	(X)	(under 2)	27.4	(over 2)	2.1	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries					
	Listing of other industries with over \$2 million shipments of the primary products						
3483	3261 Vitreous plumbing fixtures.....	(over 2)					
	3429 Hardware, n.e.c.....	(5-10)					
	3433 Heating equipment, except electric.....	(over 2)					
	3531 Construction machinery.....	(over 2)					
	3536 Hoists, cranes, and monorails.....	(over 2)					
	3545 Machine tool accessories.....	(over 2)					
	3585 Refrigeration and heating equipment.....	(over 2)					
	3635 Household vacuum cleaners.....	(over 2)					
	3662 Radio and TV communication equipment.....	14.4					
	3728 Aircraft equipment, n.e.c.....	(10-20)					
	3811 Engineering and scientific instruments.....	(over 2)					
	3873 Watches, clocks, and watchcases.....	(10-20)					
	3949 Sporting and athletic goods, n.e.c.....	(over 2)					
3484	3469 Metal stampings, n.e.c.....	(2-5)					
3489	2522 Metal office furniture.....	(over 2)					
	2899 Chemical preparations, n.e.c.....	(over 2)					
	3354 Aluminum extruded products.....	(over 2)					
	3465 Automotive stampings.....	(2-5)					
	3533 Oilfield machinery.....	(over 2)					
	3662 Radio and TV communication equipment.....	7.6					
	3714 Motor vehicle parts and accessories.....	(over 2)					
	3721 Aircraft.....	(over 2)					
	3764 Space propulsion units and parts.....	(10-20)					
	3769 Space vehicle equipment, n.e.c.....	20.2					
	3873 Watches, clocks, and watchcases.....	(over 2)					
	3999 Manufacturing industries, n.e.c.....	(over 2)					

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972—products shipped and other receipts including interplant transfers ¹		1967—value of total shipments including inter- plant transfers (million dollars)	
		Quantity	Value, f.o.b. plant		
		(million units)	(million dollars)		
3482- --	SMALL ARMS AMMUNITION, TOTAL.....	(X)	422.6	572.8	
	Small Arms Ammunition, 30 Mm and Under (or 1.18 Inches and Under):				
	For small firearms (rifles, shotguns, and sidearms):				
	Cartridges:				
	Rimfire rifle/pistol:				
34820 21	Shipped to Government (Federal, State, local, etc.).....	26.3	.7	570.0	
34820 29	Other shipments.....	3,506.1	37.9		
	Centerfire rifle:				
34820 31	Shipped to Government (Federal, State, local, etc.).....	2,786.9	193.5		
34820 39	Other shipments.....				
	Centerfire pistols (including cartridges interchangeable between rifles and pistols):				
34820 41	Shipped to Government (Federal, State, local, etc.).....	354.9	20.7		
34820 49	Other shipments.....				
	Shotgun shells:				
34820 51	Shipped to Government (Federal, State, local, etc.).....	10.8	.9		
34820 59	Other shipments.....	1,246.5	93.0		
	Ammunition components:				
34820 61	Primers.....	915.8	5.7	1.8	
34820 69	All other, including wads, shot cases (primed or unprimed), bullets, bullet jackets, cases, etc.....	(X)	46.2		
34820 98	Other ammunition products, including industrial shells and cartridges, air gun ammunition, percussion caps, etc.....	(X)	16.2		
34820 00	Small arms ammunition, 30 mm and under (or 1.18 inches and under), n.s.k., represents establishments with 10 employees or more. (See note.).....	(X)	5.9		
34820 02	Small arms ammunition, 30 mm and under (or 1.18 inches and under), n.s.k., represents establishments with less than 10 employees. (See note.).....	(X)	1.9	1.0	
1972 product code	Product	Total product shipments including interplant transfers (million dollars)			
		1972	1967		
3483- --	AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C., TOTAL.....	1,303.2	2,462.0		
34831 --	Artillery Ammunition Over 30 mm (or Over 1.18 Inches).....	764.1	1,230.8		
34831 11	Complete rounds, loaded.....				
34831 35	Steel cases only.....				
34831 51	Projectile metal parts.....				
34831 71	Other components, including primers, fuses, boosters, and nonsteel cases.....				
34831 00	Artillery ammunition over 30 mm, n.s.k.....				
34832 11	Receipts for ammunition loading and assembly over 30 mm (or over 1.18 inches).....		222.8		
34833 --	Ammunition, Except for Small Arms, N.E.C.....	535.2	995.8		
34833 11	Bombs, depth charges, mines, torpedoes, etc., and parts.....				
34833 31	Rockets (other than guided missiles) and parts.....				
34833 00	Ammunition, except for small arms, n.e.c., n.s.k.....				
34830 00	Ammunition, except for small arms, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....	3.2	12.5		
34830 02	Ammunition, except for small arms, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....	.7	.2		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972—products shipped and other receipts including interplant transfers ¹		1967—total shipments including interplant transfers	
			Quantity	Value, f.o.b. plant (million dollars)	Quantity	Value (million dollars)
3484- --	SMALL ARMS, TOTAL.....	.....	(X)	334.1	(X)	361.7
34841 21	Machine Guns, 30 Mm. and Under (or 1.18 Inches and Under).....	.....	(X)	(²)	(X)	(²)
34842 --	Small Arms, 30 Mm. and Under (or 1.18 Inches and Under).....	.....	(X)	² 326.0	(X)	² 358.8
	Pistols and revolvers:					
	Centerfire:					
34842 31	Shipped to Government (Federal, State, local, etc.).....	1,000 Units..	251.0	19.2	1,053.0	45.8
34842 33	Other shipments.....	...do.....	747.0	47.2		
34842 35	Rimfire:					
34842 37	Shipped to Government (Federal, State, local, etc.).....	...do.....	250.0	11.1		
	Other shipments.....	...do.....				
	Rifles:					
	Centerfire:					
	Semiautomatic:					
34842 41	Shipped to Government (Federal, State, local, etc.).....	...do.....	360.0	37.8	999.0	90.8
34842 42	Other shipments.....	...do.....				
	Bolt repeater:					
34842 43	Shipped to Government (Federal, State, local, etc.).....	...do.....	198.0	15.8		
34842 44	Other shipments.....	...do.....				
	Lever repeater:					
34842 45	Shipped to Government (Federal, State, local, etc.).....	...do.....	-	-		
34842 46	Other shipments.....	...do.....	(³)	(³)		
	All other centerfire action types:					
34842 47	Shipped to Government (Federal, State, local, etc.).....	...do.....	-	-		
34842 49	Other shipments.....	...do.....	³ 389.0	³ 23.8		
	Rimfire:					
34842 51	Semiautomatic.....	...do.....	597.0	16.8	764.3	22.2
34842 53	All other repeating.....	...do.....	272.0	9.2		
34842 56	Single shot.....	...do.....	107.0	2.7		
	Shotguns:					
	Single barrel:					
	Repeating:					
34842 66	Shipped to Government (Federal, State, local, etc.).....	...do.....	8.0	.4	617.0	38.3
34842 68	Other shipments.....	...do.....	869.0	63.2		
34842 63	Single shot.....	...do.....	274.0	14.3	284.2	8.3
34842 64	Double barrel, including over and under type.....	...do.....				
34842 73	Other small firearms, 30 mm. and under.....	.....	(X)	² 34.6	(X)	² 151.2
34842 81	Parts and attachments for small firearms.....	.....	(X)	28.4		
34842 00	Small arms, 30 mm. and under (or 1.18 inches and under), n.s.k.	.....	(X)	1.5		
34840 00	Small arms, 30 mm. and under, n.s.k., represents establishments with 10 employees or more. (See note.).....	.....	(X)	5.4	(X)	2.1
34840 02	Small arms, 30 mm. and under, n.s.k., represents establishments with less than 10 employees. (See note.).....	.....	(X)	2.7	(X)	.8

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3489- --	ORDNANCE AND ACCESSORIES, N.E.C., TOTAL.....	454.9	857.6
34891 ---	Guns, Howitzers, Mortars, and Related Equipment, Over 30 Mm (Or Over 1.18 Inches).....	44.3	51.9
34891 11	Guns, howitzers, and mortars, assembled.....	44.3	51.9
34891 31	Recoilless rifles.....		
34891 51	Turrets (except aircraft turrets and aircraft turret drives), mounts and carriages (except self-propelled).....		
34891 71	Parts and other related equipment for heavy weapons.....		
34892 11	Ordnance and accessories, n.e.c., such as rocket projectors, line-throwing guns, flame throwers, torpedo tubes, etc., and their parts.....	402.4	805.7
34890 00	Ordnance and accessories, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).	7.0	(NA)
34890 02	Ordnance and accessories, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.)	1.2	(NA)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available.

¹Separate data were requested for quantity and value of transfer to manufacturing plants of the same company and quantity shipped to original equipment manufacturers. However, these data cannot be published without disclosing the operations of individual companies.

²Data for product code 34841 21 are included with product code 34842 73 in 1972 and with product codes 34842 73 and 34842 81 in 1967.

³Data for product code 34842 46 are included with product code 34842 49.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)	Product class and geographic area	Value of shipments (million dollars)	Product class and geographic area	Value of shipments (million dollars)
ARTILLERY AMMUNITION OVER 30 MM (OR 1.18 INCHES) AND RECEIPTS FOR LOADING OR ASSEMBLY (34831 AND 34832)		AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C. (34833)--Continued		GUNS, HOWITZERS, MORTARS, ETC., OVER 30 MM (34891)--Continued	
United States.....	764.1	South Region.....	142.1	North Central Region.....	FF
Northeast Region.....	125.9	South Atlantic Division.....	14.3	West North Central Division.....	FF
New England Division.....	27.8	Georgia.....	CC	Minnesota.....	FF
Massachusetts.....	EE	Florida.....	CC	South Region.....	BB
Rhode Island.....	CC	West South Central Division.....	127.8	West South Central Division.....	BB
Connecticut.....	EE	Louisiana.....	CC	Texas.....	BB
Middle Atlantic Division.....	98.1	Texas.....	GG	West Region.....	BB
New York.....	FF	West Region.....	118.6	Pacific Division.....	BB
New Jersey.....	BB	Mountain Division.....	CC	California.....	BB
Pennsylvania.....	65.4	Utah.....	CC		
North Central Region.....	378.0	Pacific Division.....	GG	ORDNANCE AND ACCESSORIES, N.E.C. (34892)	
East North Central Division.....	202.6	California.....	GG	United States.....	402.4
Ohio.....	1.0			Northeast Region.....	72.1
Indiana.....	GG	MACHINE GUNS, 30 MM AND UNDER (OR 1.18 INCHES AND UNDER), AND SMALL ARMS, 30 MM AND UNDER (OR 1.18 INCHES AND UNDER) (34841 AND 34842)		New England Division.....	24.0
Illinois.....	FF	United States.....	326.0	Vermont.....	EE
Wisconsin.....	GG	Northeast Region.....	298.4	Massachusetts.....	BB
West North Central Division.....	175.4	New England Division.....	215.4	Connecticut.....	BB
Minnesota.....	CC	Maine.....	CC	Middle Atlantic Division.....	48.2
Iowa.....	EE	New Hampshire.....	CC	New York.....	BB
Missouri.....	CC	Vermont.....	FF	New Jersey.....	CC
Nebraska.....	CC	Massachusetts.....	49.5	Pennsylvania.....	38.3
Kansas.....	GG	Connecticut.....	130.6	North Central Region.....	175.2
South Region.....	GG	Middle Atlantic Division.....	83.0	East North Central Division.....	GG
South Atlantic Division.....	EE	New York.....	GG	Ohio.....	FF
Maryland.....	BB	Pennsylvania.....	EE	Indiana.....	BB
Georgia.....	CC	North Central Region.....	5.0	Illinois.....	16.4
East South Central Division.....	GG	East North Central Division.....	BB	Wisconsin.....	5.8
Tennessee.....	52.5	Ohio.....	AA	West North Central Division.....	GG
Alabama.....	EE	Wisconsin.....	BB	Minnesota.....	EE
West South Central Division.....	96.7	South Region.....	7.4	Missouri.....	GG
Arkansas.....	AA	South Atlantic Division.....	6.4	South Region.....	53.4
Louisiana.....	FF	Maryland.....	BB	South Atlantic Division.....	EE
Texas.....	GG	Florida.....	BB	Maryland.....	BB
West Region.....	FF	West South Central Division.....	AA	Virginia.....	BB
Pacific Division.....	FF	Texas.....	AA	Georgia.....	BB
California.....	FF	West Region.....	15.2	Florida.....	BB
AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C. (34833)		Mountain Division.....	CC	East South Central Division.....	CC
United States.....	535.2	Colorado.....	CC	Kentucky.....	CC
Northeast Region.....	112.0	Pacific Division.....	CC	Alabama.....	AA
Middle Atlantic Division.....	GG	California.....	CC	West South Central Division.....	FF
New York.....	FF	GUNS, HOWITZERS, MORTARS, ETC., OVER 30 MM (34891)		Arkansas.....	FF
Pennsylvania.....	GG	United States.....	44.3	West Region.....	101.7
North Central Region.....	162.6	Northeast Region.....	CC	Mountain Division.....	FF
East North Central Division.....	FF	New England Division.....	BB	Arizona.....	EE
Ohio.....	EE	Massachusetts.....	BB	Utah.....	EE
Indiana.....	CC	Middle Atlantic Division.....	BB	Pacific Division.....	GG
Illinois.....	EE	New Jersey.....	BB	Washington.....	AA
Wisconsin.....	CC			Oregon.....	AA
West North Central Division.....	GG			California.....	74.7
Minnesota.....	GG				
Nebraska.....	EE				
Kansas.....	CC				

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
34820	Small arms ammunition (30 mm and under).....	422.6	373.4	510.3	616.4	586.8	572.8	192.4	150.7
3483	Ammunition, except for small arms, n.e.c.....	1,303.2	1,120.1	1,752.8	3,174.0	3,199.8	2,462.0	355.9	(NA)
34831	Artillery ammunition over 30 mm (or over 1.18 inches).....	764.1	621.2	1,019.5	1,671.7	1,698.1	1,230.8	169.2	(NA)
34832	Receipts for ammunition loading and assembly, over 30 mm...	535.2	498.9	733.3	1,502.3	1,501.7	222.8	186.7	(NA)
34833	Ammunition, except for small arms, n.e.c.....	3.9					995.8		
34830	Ammunition, except for small arms, n.e.c., n.s.k.....						12.7		
3484	Small arms.....	334.1	326.2	435.5	464.2	422.2	361.7	148.5	86.0
34841	Machine guns, 30 mm and under (or 1.18 inches and under)...	334.1	326.2	435.5	464.2	422.2	361.7	148.5	86.0
34842	Small arms, 30 mm and under (or 1.18 inches and under)....								
34840	Small arms, n.s.k.....								
3489	Ordnance and accessories, n.e.c.....	454.9	601.7	809.0	942.9	993.2	857.6	255.9	(NA)
34891	Guns, howitzers, mortars, and related equipment over 33 mm.	44.3	52.0	70.8	98.0	109.3	51.9	12.4	(NA)
34892	Ordnance and accessories, n.e.c.....	402.4	549.7	738.2	844.9	883.9	805.7	243.5	(NA)
34890	Ordnance and accessories, n.e.c., n.s.k.....	8.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3482.--SMALL ARMS AMMUNITION					
	Materials, parts, containers, and supplies, total.....		(X)	¹ 207.8	(X)	311.7
	Mill shapes and forms (except castings):					
	Carbon steel:					
331017	Wire and wire products.....	1,000 s. tons.	20.5	8.4	155.9	85.5
331012	Sheet and strip.....	...do.....				
331013	Plates.....	...do.....				
331011	Bars and bar shapes.....	...do.....				
331019	All other carbon steel mill shapes and forms.....	...do.....				
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	113.3	79.8	203.5	110.9
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....				
331050	All other stainless steel mill shapes and forms.....	...do.....				
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	22.3	19.9	(NA)	² 24.0
335143	Plate, sheet, and strip, including military cups and disc....	...do.....				
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....				
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	(D)	(D)	(D)	(D)
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, and welded tubing, etc.).....	...do.....	(D)	(D)	(D)	(D)
289217	Smokeless powder.....	...do.....	(D)	(D)	(D)	(D)
	Bearings:					
356218	Ball.....	...do.....	(D)	(D)	(D)	(D)
356228	Roller.....	...do.....	(D)	(D)	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	91.9	(X)	¹ 86.1
976000	Materials, parts, containers, and supplies, n.s.k. ³		(X)	7.7	(X)	5.2
	INDUSTRY 3483.--AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	¹ 725.9	(X)	1,260.8
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	620.8	145.2	425.2	61.2
331012	Sheet and strip.....	...do.....	53.1	14.5	23.2	6.0
331013	Plates.....	...do.....	(⁴)	(⁴)	207.0	40.3
331015	Structural shapes.....	...do.....	(⁴)	(⁴)		
331017	Wire and wire products.....	...do.....	5.8	1.4		
331019	All other carbon steel mill shapes and forms.....	...do.....	⁴ 269.0	⁴ 64.3		
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	45.9	13.3	33.9	10.1
331029	All other alloy steel mill shapes and forms.....	...do.....	41.6	9.2		
	Stainless steel:					
331033	Sheet and strip.....	...do.....	.6	.9		
331050	All other stainless steel mill shapes and forms.....	...do.....	.5	.9		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)	(D)	(D)	(D)
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire including extruded and/or drawn shapes.....	Million lb....	7.9	7.4	11.9	4.9
335143	Plate, sheet, and strip, including military cups and disc....	...do.....			1.9	.8
335152	Pipe and tube.....	...do.....			(⁵)	(⁵)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....			28.7	16.8	11.1	6.0
332045	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	14.4	17.9	36.4	19.5
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	...do.....	12.5	4.0		
999808	Aluminum and aluminum-base alloy scrap (excluding home scrap)....	...do.....	-	-	(D)	(D)
	Castings (rough and semifinished): ⁶					
332011	Iron (gray and malleable).....	1,000 s. tons.	6.5	3.4	12.4	7.6
332045	Steel.....	...do.....	4.4.4	2.2	2.5	1.2
336100	Aluminum and aluminum-base alloy.....	Million lb....	10.1	8.9	5.1	7.8

See footnotes at end of table....

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3483.--AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C.--Continued					
	Materials, parts, containers, and supplies--Continued					
	Forgings: ⁶					
346200	Iron and steel forgings.....	1,000 s. tons.	21.8	12.4	97.2	42.4
346310	Aluminum and aluminum-base alloy forgings.....	Million lb....	8.6	8.4	3.3	5.4
	Fractional horsepower electric motors (under 1 hp.): ⁶					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	(D)	(D)
	Bearings:					
356218	Ball.....	.....	(X)	(D)	(X)	(X)
356201	Roller.....	.....			
282130	Thermoplastic resins.....	Million lb (dry basis)...			(NA)	(NA)
282140	Thermosetting resins.....	...do.....	3.1	2.2	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	326.5	(X)	¹ 963.2
976000	Materials, parts, containers, and supplies, n.s.k. ³.....	.....	(X)	58.6	(X)	84.4
	INDUSTRY 3484.--SMALL ARMS					
	Materials, parts, containers and supplies, total.....	.....	(X)	¹ 98.5	(X)	148.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	25.1	7.1	11.2	2.9
331012	Sheet and strip.....	...do.....	2.7	.9	3.6	1.0
331013	Plates.....	...do.....				
331017	Wire and wire products.....	...do.....	1.2	1.1	1.2	.9
331019	All other carbon steel mill shapes and forms.....	...do.....				
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	7.1	4.4	4.2	2.2
331029	All other alloy steel mill shapes and forms.....	...do.....			1.9	.9
	Stainless steel:					
331033	Sheet and strip.....	...do.....	.5	.6	.6	.8
331050	All other stainless steel mill shapes and forms.....	...do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	-	-	(D)	(D)
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire including extruded and/or drawn shapes.....	Million lb....				
335143	Plate, sheet, and strip (including military cups and discs)..	...do.....	(D)	(D)	.5	.4
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....				
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	3.7	2.2	3.2	2.1
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, and welded tubing, etc.).....	...do.....				
	Castings (rough and semifinished):					
332011	Iron (gray and malleable).....	1,000 s. tons.	(D)	(D)		
332045	Steel.....	.....	1.1	3.5	(NA)	6.8
336100	Aluminum and aluminum-base alloy.....	Million lb....	.7	1.6		
	Forgings:					
346200	Iron and steel.....	1,000 s. tons.	2.6	5.6	(D)	(D)
346310	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(D)	(D)
289217	Smokeless powder.....	...do.....	(D)	(D)	(NA)	(NA)
	Bearings:					
356218	Ball.....	.....		(D)	(X)	1.0
356201	Roller.....	.....	(X)		(X)	.2
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	¹ 57.7	(X)	¹ 91.7
976000	Materials, parts, and supplies, n.s.k. ³.....	.....	(X)	11.8	(X)	38.0

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3489.--ORDNANCE AND ACCESSORIES, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	¹ 117.0	(X)	¹ 91.7
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	1.1	.3	23.5	5.5
331012	Sheet and strip.....	..do.....	24.2	5.9	14.2	2.7
331013	Plates.....	..do.....				
331015	Structural shapes.....	..do.....	5.9	1.4	46.4	8.5
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	1.6	.7	5.9	3.7
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.9	1.1	1.2	1.4
331050	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)	(D)	(D)	(D)
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....			.3	.3
335143	Plate, sheet, and strip (including military cups and discs...)	..do.....	(D)	(D)	.2	.2
335152	Pipe and tube.....	..do.....			(NA)	(NA)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....				
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	(NA)	2.4	10.4	6.7
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	..do.....				
	Castings (rough and semifinished): ⁶					
332011	Iron (gray and malleable).....	1,000 s. tons.	(D)	(D)	(D)	(D)
332045	Steel.....	..do.....	(D)	(D)	3.6	2.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	7.8	6.9
	Forgings: ⁶					
346200	Iron and steel forgings.....	1,000 s. tons.	(D)	(D)	2.2	4.5
346310	Aluminum and aluminum-base alloy forgings.....	Million lb....	(D)	(D)	(NA)	.4
	Fractional horsepower electric motors and generators (under 1hp.): ⁶					
362110	Timing motors, synchronous and subsynchronous.....	Millions.....	(D)	(D)	(D)	(D)
	Bearings:					
356218	Ball.....	.....	(D)	(D)	(D)	(D)
356228	Roller.....	.....	(D)	(D)	-	-
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	57.3	(X)	¹ 154.1
976000	Materials, parts, and supplies, n.s.k. ³.....	.....	(X)	30.6	(X)	43.9

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹Includes cost for materials indicated by the symbol (D).²Source: Represents estimates published in MC 67(S)-5, "Selected Materials Consumed," from data collected in a supplemental survey on form MA-131, "Consumption of Materials, Parts, Containers, and Supplies During 1967." This survey was limited to large establishments in selected chemical, machinery, and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.³This item represents the total cost of materials for establishments that did not report detailed materials data.⁴Included with material code 331019, "All other carbon steel mill shapes and forms."⁵Included with material code 970099, "All other materials and components, etc."⁶No data are available for castings, forgings, or fractional horsepower electric motors produced and consumed in the same establishment.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(Not applicable to this report)



1972 ECONOMIC CENSUS

1972 CENSUS OF MANUFACTURES

Issued June 1976

U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

CHANGE SHEET

Miscellaneous Fabricated Metal Products: MC72(2)-34F

The pages of table 6A reproduced here contain corrected figures. They are encircled on page 34F-21, but because of the number of corrections on 34F-22, the page is entirely replaced.

1972 CENSUS OF MANUFACTURES

MISCELLANEOUS FABRICATED METAL PRODUCTS 34F-21

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3494- --	VALVE AND PIPE FITTINGS, TOTAL.....		(X)	2,891.6	(X)	2,091.9
34941 --	Automatic Regulating and Control Valves.....		(X)	513.3	(X)	327.9
	Engineered specification valves, designed to perform a precise degree of continuous modulation of controlled variables as the final element of a sophisticated instrumentation loop (commonly referred to as control valves and including certain globe, butterfly, ball, diaphragm and similar body types):					
34941 20	As reported in the census of manufactures.....		(X)	219.8	(X)	103.2
	As reported in Current Industrial Reports series MA-38B, "Selected Instruments and Related Products".....	1,000 units...	(NA)	244.1	(NA)	(NA)
34941 05	Pneumatic actuated.....	do.....	(NA)	127.0	(NA)	(NA)
34941 10	Electric actuated.....	do.....	(NA)	27.0	(NA)	(NA)
34941 15	Electro-hydraulic actuated.....	do.....	(NA)	10.2	(NA)	(NA)
34941 19	Other.....	do.....	(NA)	79.9	(NA)	(NA)
	Regulator valves equipped with self-generating power actuators acting in response and in proportion to a change in value of the controlled variable, such as temperature, pressure, flow, level, etc.:					
34941 40	As reported in the census of manufactures.....		(X)	167.7	(X)	219.4
	As reported in Current Industrial Reports series MA-38B, "Selected Instruments and Related Products".....	1,000 units...	(NA)	164.2	(NA)	158.0
	Solenoid valves of the type actuated by the movement of a plunger or armature due to the magnetic field created by electrically energizing a solenoid coil (excluding torque motor rotary type actuated valves and servovalves):					
34941 60	As reported in the census of manufactures.....		(X)	105.5	(3)	(3)
	As reported in Current Industrial Reports series MA-38B, "Selected Instruments and Related Products".....	1,000 units...	(NA)	129.5	11.4	61.1
34941 55	Two-way.....	do.....	(NA)	69.7	(NA)	(NA)
34941 57	Three-way.....	do.....	(NA)	10.5	(NA)	(NA)
34941 65	Fluid power solenoid-hydraulic.....	do.....	(NA)	5.9	(NA)	(NA)
34941 70	Fluid power solenoid-pneumatic.....	do.....	(NA)	14.3	(NA)	(NA)
34941 75	Other solenoid valves.....	do.....	(NA)	29.1	(NA)	(NA)
34941 00	Automatic regulating and control valves, n.s.k.....		(X)	17.0	(X)	5.3

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3494- --	VALVES AND PIPE FITTINGS--Continued					
34942 --	Valves for Power Transfer (Pneumatic and Hydraulic).....	(X)		306.8	(X)	229.5
	Hydraulic valves, all pressures:					
34942 31	Directional control (except solenoid).....	1,000 units...	1,685.2	84.0	3,799.4	101.1
34942 33	Pressure control.....	..do.....	1,043.1	33.6	684.2	19.5
34942 35	Volume flow control.....	..do.....	(NA)	27.1	566.4	10.3
34942 37	Servovalves.....	..do.....			101.7	24.6
34942 41	Combination.....	..do.....	248.0	54.1		
34942 43	Fluidic, including amplifiers, interface devices and transducers.....	..do.....	7.6	.3	166.4	6.4
	Pneumatic valves, all pressures:					
34942 61	Directional control (except solenoid).....	..do.....	1,777.8	33.8	1,154.5	33.1
34942 63	Pressure, including filter-lubricator-regulator control.....	..do.....	(NA)	25.0	(NA)	7.5
34942 65	Volume flow control.....	..do.....	510.1	3.7	942.6	3.5
34942 67	Combination.....	..do.....	8.4	2.6	(NA)	10.2
34942 98	All other power transfer valves (including fluidic pneumatic)...	..do.....	(NA)	25.3		
34942 00	Valves for power transfer, n.s.k.....	..do.....	(X)	17.3	(X)	13.3
34943 --	Other Metal Valves for Piping Systems and Equipment (Except Plumbing and Heating Valves).....	(X)		1,036.9	(X)	793.6
	Gates, globes, angles, straightway (Y-type) checks, stop and check, cross, 3 and 4 way, etc., including remote-control operators:					
	Iron body, including ductile or nodular, all pressures:					
34943 13	Municipal type (IBBM).....	1,000 s. tons.	(NA)	65.3	(NA)	57.8
34943 15	Fire hydrants.....	..do.....	(NA)	33.1	(NA)	21.5
34943 17	All other iron valves.....	..do.....	(NA)	78.7	(NA)	61.1
	Steel, all pressures:					
34943 21	Cast and forged carbon steel.....	..do.....	(NA)	157.5	42.3	110.0
34943 23	Cast and forged alloy steel (all types, including stainless)...	..do.....	(NA)	83.5	(NA)	72.1
34943 25	Brass and bronze (125 lb. w.s.p. and over).....	..do.....	(NA)	128.6	(NA)	111.0
34943 31	Ball valves, including operators, all metals, pressures, and types (excluding automatic valves).....	..do.....	(NA)	93.7	(NA)	77.3
34943 33	Butterfly valves, including operators, all metals, pressures, and types (excluding automatic valves).....	..do.....	(NA)	97.5	(NA)	47.4
34943 35	Plug valves, including operators, all metals, pressures, and types (such as lubricated, nonlubricated, cylindrical, eccentric, sleeve lines).....	..do.....	(NA)	81.2	(NA)	74.4
34943 37	Cocks and stops, all metals, pressures, and types.....	..do.....	(NA)	12.7	(NA)	10.2
34943 39	Diaphragm and pinch valves, including operators, all metals, pressures and types (excluding automatic valves).....	..do.....	(NA)	20.0	(NA)	10.6
34943 41	All other engineered specification valves, 125 w.s.p. and over, including operators, n.e.c., (excluding automatic valves).....	..do.....	(NA)	22.2	(NA)	6.6
34943 43	All other general purpose valves, including operators, except plumbing and heating valves, n.e.c.....	..do.....	(NA)	42.1	(NA)	28.2
	Pop safety valves and relief valves (over 15 lb. w.s.p.):					
34943 51	Iron.....	..do.....	(NA)	2.9	.7	2.9
34943 53	Steel (carbon and alloy).....	..do.....	(NA)	32.9	(NA)	24.6
34943 55	Brass and bronze.....	..do.....	(NA)	11.9	(NA)	7.8
34943 57	Compressed gas cylinder valves.....	1,000 units...	(NA)	12.1	(NA)	8.7
34943 61	Steam traps (over 15 lb. w.s.p.).....	Million units.	.5	9.6	1.1	12.2
34943 98	Other metal valves and specialties.....	..do.....	(X)	32.5	(X)	42.0
34943 00	Other metal valves for piping systems and equipment, n.s.k.....	..do.....	(X)	18.9	(X)	7.2
34944 --	Plumbing and Heating Valves and Specialties (Except Plumbers' Brass Goods).....	(X)		139.3	(X)	101.2
34944 11	Gates, globes, angles, straightway (Y-type) checks, stop and check, cross, 3- and 4-way drain, etc., brass and bronze (under 125 lb. w.s.p.).....	1,000 s. tons.	21.1	51.3	19.7	43.0
34944 19	Other metal plumbing and heating valves and specialties, including steam traps, pop safety valves and relief valves (15 lb. w.s.p. and under).....	..do.....	18.6	75.1	14.1	51.1
34944 00	Plumbing and heating valves, and specialties, n.s.k.....	..do.....	(X)	12.9	(X)	7.1
34945 --	Metal Fittings, Flanges, and Unions for Piping Systems.....	(X)		602.2	(X)	484.7
34945 11	Gray iron fittings, flanges, and unions (not forcast ironpipe).	1,000 s. tons.	50.2	21.8	86.0	39.9
	Malleable iron:					
34945 13	Fittings and flanges.....	..do.....	80.3	69.6	89.8	70.1
34945 15	Unions and union fittings.....	..do.....	14.7	22.6	15.4	17.2

See footnotes at end of table.

Miscellaneous Fabricated Metal Products

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EXPLANATORY TEXT

MISCELLANEOUS FABRICATED METAL PRODUCTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

- 3493—Steel Springs, Except Wire
- 3494—Valves and Pipe Fittings, Except Plumbers' Brass Goods*
- 3495—Wire Springs
- 3496—Miscellaneous Fabricated Wire Products
- 3497—Metal Foil and Leaf
- 3498—Fabricated Pipe and Fabricated Pipe Fittings*
- 3499—Fabricated Metal Products, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

INDUSTRY 3493.—STEEL SPRINGS, EXCEPT WIRE

This industry includes establishments primarily engaged in manufacturing leaf springs, hot wound springs, and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in industry 3495. For a detailed list of products of industry 3493, refer to table 6A, product codes 34931 04 to 34932 71.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

*Note that the "short title" for this industry is used throughout the report.

Value of shipments and other receipts of the Steel Springs, Except Wire, Industry in 1972 totaled \$331 million. This included shipments of steel springs, except wire, (primary products) valued at \$265 million, shipments of other products (secondary products) valued at \$61 million, and miscellaneous receipts (mainly resales) of \$6 million.

Shipments of steel springs, except wire, (primary products) in 1972 represented 81 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 88 percent. Secondary products shipped by this industry in 1972 consisted mainly of wire springs (\$20 million).

Shipments of steel springs, except wire, (primary products) from establishments classified in industry 3493 in 1972 represented 73 percent (coverage ratio) of these products valued at \$362 million shipped by all industries. In 1967, the coverage ratio was 63 percent. Other industries shipping steel springs, except wire, consisted mainly of industry 3495, Wire Springs, (\$35 million); industry 3714, Motor Vehicle Parts and Accessories, (\$32 million); and industry 3711, Motor Vehicles and Car Bodies (\$10 to \$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3493, these establishments accounted for 5 percent of value of shipments.

INDUSTRY 3494.—VALVES AND PIPE FITTINGS (Short Title)

This industry includes establishments primarily engaged in manufacturing pipe fittings and valves for controlling the flow of liquids or gases in pipes and mains, and for machinery. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in industry 3432 (Plumbing Fittings and Brass Goods), flexible metal hose and tubing in industry 3599 (Machinery, Except Electrical, N.E.C.), and fittings and couplings for garden hose in industry 3429 (Hardware, N.E.C.). For a detailed list of products of industry 3494, refer to table 6A, product codes 34941 20 to 34946 77.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Valves and Pipe Fittings Industry in 1972 totaled \$2,941 million. This included shipments of valves and pipe fittings (primary products) valued at \$2,470 million, shipments of other products (secondary products) valued at \$300 million, and miscellaneous receipts (mainly resales) of \$171 million.

Shipments of valves and pipe fittings (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of pumps and pumping equipment (\$27 million) and general industrial machinery, n.e.c., (\$17 million).

Shipments of valves and pipe fittings (primary products) from establishments classified in industry 3494 in 1972 represented 86 percent (coverage ratio) of these products valued at \$2,877 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping valves and pipe fittings consisted mainly of industry 3561, Pumps and Pumping Equipment, (\$93 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3494, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 3495.—WIRE SPRINGS

This industry includes establishments primarily engaged in manufacturing wire springs. Establishments primarily engaged in assembling wire bedsprings or seats are classified in SIC Major Group 25 (Furniture and Fixtures). For a detailed list of products of industry 3495, refer to table 6A, product codes 34952 12 to 34953 98.

The Wire Springs Industry is included as a separate industry for the first time in the census of manufactures for 1972. In 1972, old industry 3481, Miscellaneous Fabricated Wire Products, was split into industry 3495, Wire Springs, and industry 3496, Miscellaneous Fabricated Wire Products. In terms of content, new industry 3495 is comprised of old product classes 34812 and 34813. The effect of these revisions on the data are summarized in Table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC."

Value of shipments and other receipts of the Wire Springs Industry in 1972 totaled \$612 million. This included shipments of wire springs (primary products) valued at \$528 million, shipments of other products (secondary products)

valued at \$72 million, and miscellaneous receipts (mainly resales) of \$11 million.

Shipments of wire springs (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of steel springs, except wire, (\$35 million).

Shipments of wire springs (primary products) from establishments classified in industry 3495 in 1972 represented 93 percent (coverage ratio) of these products valued at \$566 million shipped by all industries. Other industries shipping wire springs consisted mainly of industry 3493, Steel Springs, Except Wire, (\$20 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. In those cases where two industries or more were created from an old industry, data based on administrative records have been assigned to only one of the new industries. Administrative record data for industry 3495 are included with data for industry 3496.

INDUSTRY 3496.—MISCELLANEOUS FABRICATED WIRE PRODUCTS

This industry includes establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire, such as noninsulated wire rope and cable; fencing; screening, netting, and paper machine wire cloth; and hangers, paper clips, kitchenware, and wire carts.

Rolling mills engaged in manufacturing wire products are classified in SIC Major Group 33 (Primary Metal Industries); establishments manufacturing nonferrous wire nails and spikes in industry 3399 (Primary Metal Products, N.E.C.); those drawing and insulating nonferrous wire in industry 3357 (Nonferrous Wire Drawing and Insulating); and those manufacturing wire springs in industry 3495. For a detailed list of products of industry 3496, refer to table 6A, product codes 34961 11 to 34969 88.

Although the title of this industry has remained the same as that used in the 1967 classification system, the SIC number has changed from 3481 to 3496. (Old industry 3496, Collapsible Tubes, is no longer a separate industry; it is part of new industry 3499.) The content of the industry has changed significantly. New industry 3496 is comprised of old product classes 34811, 34814, 34815, 34816, and 34819; but old product classes 34812 and 34813 are the basis of new industry

3495. The effect of those revisions on the data are summarized in Table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC."

Value of shipments and other receipts of the Miscellaneous Fabricated Wire Products Industry in 1972 totaled \$959 million. This included shipments of miscellaneous fabricated wire products (primary products) valued at \$836 million, shipments of other products (secondary products) valued at \$63 million, and miscellaneous receipts (mainly resales) of \$60 million.

Shipments of miscellaneous fabricated wire products (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of metal stampings, n.e.c., (\$13 million).

Shipments of miscellaneous fabricated wire products (primary products) from establishments classified in industry 3496 in 1972 represented 45 percent (coverage ratio) of these products valued at \$1,862 million shipped by all industries. Other industries shipping miscellaneous fabricated wire products consisted mainly of industry 3315, Steel Wire and Related Products, (\$601 million) and industry 3312, Blast Furnaces and Steel Mills, (\$285 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3496, these establishments accounted for 15 percent of value of shipments. (This includes the administrative records from new industry 3495.)

INDUSTRY 3497.—METAL FOIL AND LEAF

This industry includes establishments primarily engaged in manufacturing gold, silver, tin, and other metal foil (including converted metal foil) and leaf. This industry also includes establishments primarily engaged in converting metal foil (including aluminum) into wrappers, cookware, dinnerware, and containers, except bags and liners. Establishments primarily engaged in manufacturing plain aluminum foil are classified in industry 3353 (Aluminum Sheet, Plate and Foil). For a detailed list of products of industry 3497, refer to table 6A, product codes 34971 32 to 34973 59.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Metal Foil and Leaf Industry in 1972 totaled \$285 million. This included

shipments of metal foil and leaf (primary products) valued at \$215 million, shipments of other products (secondary products) valued at \$56 million, and miscellaneous receipts (mainly resales) of \$15 million.

Shipments of metal foil and leaf (primary products) in 1972 represented 79 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent. Secondary products shipped by this industry in 1972 consisted mainly of miscellaneous plastics products (\$12 million) and paper coating and glazing (\$11 million).

Shipments of metal foil and leaf (primary products) from establishments classified in industry 3497 in 1972 represented 42 percent (coverage ratio) of these products valued at \$512 million shipped by all industries. In 1967, the coverage ratio was 56 percent. Other industries shipping metal foil and leaf consisted mainly of industry 3353, Aluminum Sheet, Plate, and Foil, (\$169 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3497, these establishments accounted for 3 percent of value of shipments.

INDUSTRY 3498.—FABRICATED PIPE AND FITTINGS (Short Title)

This industry includes establishments primarily engaged in fabricating pipe and pipe fittings from purchased pipe by cutting, threading, bending, etc. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have been machined and threaded, are classified in industry 3321 (Gray Iron Foundries); welded and heavy riveted pipe and seamless steel pipe are classified in industry 3317 (Steel Pipe and Tubes). Establishments primarily engaged in manufacturing products such as banisters, railings, and guards from pipe are classified in industry 3446 (Architectural Metalwork). For a detailed list of products of industry 3498, refer to table 6A, product codes 34980 13 to 34980 19.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Fabricated Pipe and Fittings Industry in 1972 totaled \$704 million. This included shipments of fabricated pipe and fittings (primary products) valued at \$605 million, shipments of other products

(secondary products) valued at \$35 million, and miscellaneous receipts (mainly resales) of \$64 million.

Shipments of fabricated pipe and fittings (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent. Secondary products shipped by this industry in 1972 consisted mainly of fabricated metal products, n.e.c., and valves and pipe fittings.

Shipments of fabricated pipe and fittings (primary products) from establishments classified in industry 3498 in 1972 represented 90 percent (coverage ratio) of these products valued at \$670 million shipped by all industries. In 1967, the coverage ratio was also 90 percent. Other industries shipping fabricated pipe and fittings consisted mainly of industry 3499, Fabricated Metal Products, N.E.C., (\$18 million); and industry 3494, Valves and Pipe Fittings, (\$13 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3498, these establishments accounted for 5 percent of value of shipments.

INDUSTRY 3499.—FABRICATED METAL PRODUCTS, N.E.C.

This industry includes establishments primarily engaged in manufacturing fabricated metal products, not elsewhere classified, such as fire- or burglary-resistive steel safes and vaults, and similar fire- or burglary-resistive products; and collapsible tubes of thin flexible metal. Also included are establishments primarily engaged in manufacturing metal boxes, metal ladders, and metal household articles, such as ice cream freezers and ironing boards.

Establishments primarily engaged in manufacturing concrete grave vaults are classified in industry 3272 (Concrete Products, N.E.C.) and metal grave vaults in industry 3995 (Burial Caskets). Establishments primarily engaged in manufacturing advertising novelties are classified in industry 3993 (Signs and Advertising Displays). For a detailed list of product codes of industry 3499, refer to table 6A, product codes 34991 15 to 34994 98.

Although the code number and title of this industry have remained the same as that used in the 1967 classification system, the content of the industry has changed significantly. Old industry 3492, Safes and Vaults, and old industry 3496, Collapsible Tubes, are now product classes 34991 and 34992, respectively, in this industry. Old industry 3499 comprises product classes 34993 and 34994 in the new industry.

Value of shipments and other receipts of the Fabricated Metal Products, N.E.C., Industry in 1972 totaled \$1,918 million. This included shipments of fabricated metal products, n.e.c., (primary products) valued at \$1,571 million, shipments of other products (secondary products) valued at \$191 million, and miscellaneous receipts (mainly resales) of \$157 million.

Shipments of fabricated metal products, n.e.c., (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of fabricated metal products, n.e.c., (primary products) from establishments classified in industry 3499 in 1972 represented 74 percent (coverage ratio) of these products valued at \$2,132 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3499, these establishments accounted for 13 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3493.--STEEL SPRINGS, EXCEPT WIRE															
1972 Census.....	110	53	8.5	79.9	6.7	13.3	56.9	149.7	183.1	331.4	6.6	(NA)	57.4	81	73
1971 ASM.....	(NA)	(NA)	8.8	73.1	6.9	13.4	52.8	135.5	152.4	289.8	8.3	93.5	49.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.5	74.5	7.6	14.4	53.5	126.0	141.5	265.6	5.7	86.6	46.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	9.4	74.4	7.7	16.2	54.7	132.4	159.3	290.9	*8.7	86.8	41.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	9.1	66.6	7.4	15.4	48.8	131.2	142.3	272.1	*4.7	72.4	40.0	(NA)	(NA)
1967 Census.....	114	61	7.7	53.9	6.2	12.6	39.8	91.0	100.4	192.4	6.3	69.6	30.0	88	63
1966 ASM.....	(NA)	(NA)	5.9	41.3	4.8	9.9	30.9	69.7	92.8	162.2	2.4	(NA)	23.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.9	40.3	4.7	9.7	30.1	61.5	90.0	151.4	1.8	(NA)	23.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	5.8	39.2	4.6	9.7	29.8	67.0	85.0	151.9	*1.6	40.6	21.6	(NA)	(NA)
1963 Census.....	96	49	6.3	41.3	5.1	10.6	31.4	69.3	89.1	157.7	2.9	39.9	21.1	91	61
1962 ASM.....	(NA)	(NA)	7.0	45.7	5.5	11.6	33.7	77.3	88.6	165.1	3.0	38.7	24.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	6.4	38.6	4.9	9.9	27.7	60.5	70.9	131.4	*2.0	(NA)	23.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.6	40.3	5.2	10.7	29.7	65.4	79.3	143.3	2.6	(NA)	22.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.7	40.8	5.6	11.0	29.5	67.6	84.2	150.4	*2.1	(NA)	26.5	(NA)	(NA)
1958 Census.....	90	53	6.8	35.6	5.2	10.0	25.5	54.1	65.6	120.5	1.7	(NA)	21.5	81	69
INDUSTRY 3494.--VALVES AND PIPE FITTINGS															
1972 Census.....	779	463	93.9	874.9	65.4	130.7	544.5	1,741.9	1,239.9	2,941.3	79.0	(NA)	775.6	89	86
1971 ASM.....	(NA)	(NA)	94.2	830.4	65.7	130.6	514.3	1,638.7	1,201.3	2,853.1	77.8	1,139.2	777.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	97.5	812.3	67.7	135.8	504.9	1,564.0	1,154.5	2,686.5	85.5	1,069.1	760.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	96.2	750.4	68.3	139.0	469.0	1,472.4	1,964.1	2,499.2	75.9	891.0	670.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	95.5	707.1	67.6	136.0	439.6	1,414.8	959.3	2,350.3	76.7	835.6	617.7	(NA)	(NA)
1967 Census.....	666	412	95.3	683.5	67.8	139.0	429.8	1,377.3	936.8	2,274.5	100.0	792.6	599.9	87	88
1966 ASM.....	(NA)	(NA)	92.2	642.4	66.1	138.7	410.6	1,321.6	932.6	2,209.0	67.9	(NA)	540.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	87.9	580.4	63.1	129.6	368.8	1,165.7	817.5	1,933.9	44.4	(NA)	477.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	81.9	533.5	59.1	123.3	344.7	1,003.9	711.8	1,691.5	*45.5	593.4	407.8	(NA)	(NA)
1968 Census.....	646	374	80.4	500.0	58.1	116.9	321.2	942.7	652.0	1,588.5	39.9	559.5	385.4	86	85
1962 ASM.....	(NA)	(NA)	81.3	491.4	57.9	116.4	311.7	933.0	655.3	1,570.5	38.4	525.8	389.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	76.4	446.4	54.2	107.4	277.7	820.9	616.4	1,418.5	29.9	(NA)	357.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	75.0	424.6	54.2	105.7	273.0	769.0	577.5	1,343.3	32.0	(NA)	335.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	76.0	424.4	56.1	110.7	280.4	820.9	573.4	1,357.1	35.1	(NA)	327.8	(NA)	(NA)
1958 Census.....	590	347	76.8	410.2	55.9	110.6	269.6	732.5	512.0	1,264.0	34.1	(NA)	284.5	89	88
INDUSTRY 3495.--WIRE SPRINGS (1972 SIC BASIS)															
1972 Census.....	284	216	23.7	193.2	19.8	40.0	144.5	340.7	273.3	611.9	12.9	(NA)	66.5	88	93
1967 Census ²	294	(NA)	25.6	158.5	21.5	44.1	116.4	271.3	206.1	476.5	16.4	(NA)	(NA)	(NA)	(NA)
1963 Census ²	286	(NA)	23.0	129.1	19.1	38.9	95.2	205.1	176.7	382.6	9.4	(NA)	(NA)	(NA)	(NA)
1958 Census ²	323	(NA)	21.8	103.4	17.9	34.8	75.7	156.7	133.5	292.6	5.1	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3496.--MISCELLANEOUS FABRICATED WIRE PRODUCTS (1972 SIC BASIS)															
1972 Census.....	1,210	411	33.1	261.0	26.5	51.6	177.0	503.8	462.3	958.7	28.9	(NA)	158.7	93	45
1967 Census ²	1,256	(NA)	34.6	205.5	27.8	54.9	140.8	398.2	346.9	743.9	21.4	(NA)	(NA)	(NA)	(NA)
1963 Census ²	1,281	(NA)	32.5	168.6	25.9	53.2	118.2	334.1	314.2	648.2	15.4	(NA)	(NA)	(NA)	(NA)
1958 Census ²	1,140	(NA)	33.7	157.6	26.2	51.4	108.7	283.2	292.5	582.4	13.0	(NA)	(NA)	(NA)	(NA)
1967 INDUSTRY 3481.--MISCELLANEOUS FABRICATED WIRE PRODUCTS (1972 INDUSTRIES 3495 AND 3496)															
1972 Census ³	1,494	627	56.8	454.2	46.3	91.6	321.5	844.5	735.6	1,570.6	41.8	(NA)	225.2	91	56
1971 ASM.....	(NA)	(NA)	53.4	401.2	43.3	85.0	279.2	733.3	598.4	1,336.4	30.2	459.6	200.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	55.7	388.9	45.7	90.0	274.8	727.0	559.9	1,271.7	39.9	454.9	200.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	63.3	415.3	52.5	102.9	295.7	771.0	597.3	1,386.6	53.0	417.6	187.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	61.0	399.9	50.5	100.9	283.8	751.5	591.2	1,333.6	32.2	395.6	181.7	(NA)	(NA)
1967 Census.....	1,550	613	60.2	364.0	49.3	99.0	257.2	669.5	553.0	1,220.4	37.8	392.4	177.9	93	59
1966 ASM.....	(NA)	(NA)	64.6	386.4	53.3	111.0	274.8	710.2	596.8	1,299.9	43.3	(NA)	186.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	39.3	342.3	49.1	100.4	244.3	633.1	553.4	1,178.0	30.3	(NA)	180.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	59.9	331.5	48.8	100.7	238.3	586.8	530.8	1,108.3	26.9	370.5	167.4	(NA)	(NA)
1963 Census.....	1,567	557	55.5	297.6	45.1	92.1	213.3	539.1	490.9	1,030.9	24.8	338.1	150.7	93	65
1962 ASM.....	(NA)	(NA)	60.4	325.6	48.4	100.6	226.6	561.4	512.3	1,067.8	32.5	313.2	152.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	57.4	300.3	45.8	94.9	208.1	510.5	472.3	983.6	22.5	(NA)	142.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	60.9	307.2	48.9	99.5	218.0	518.9	494.4	1,016.4	28.7	(NA)	140.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	60.7	308.9	49.3	103.4	222.7	535.3	520.5	1,053.0	24.9	(NA)	144.2	(NA)	(NA)
1958 Census.....	1,463	538	55.5	261.0	44.1	86.3	184.4	439.9	426.0	874.9	18.1	(NA)	140.2	91	64

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3497.--METAL FOIL AND LEAF															
1972 Census.....	65	41	5.4	52.4	4.0	8.2	33.5	128.0	159.3	285.2	8.4	(NA)	44.4	79	42
1971 ASM	(NA)	(NA)	5.3	49.4	3.7	7.6	29.5	102.8	161.7	266.9	17.3	106.7	40.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	6.0	53.5	4.3	8.9	32.9	113.2	165.0	278.5	9.7	104.2	45.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	6.7	56.0	5.0	10.4	36.6	122.1	177.4	294.7	15.5	100.3	50.9	(NA)	(NA)
1968 ASM	(NA)	(NA)	6.7	51.3	5.0	10.2	33.2	114.7	165.5	277.3	12.2	88.8	42.9	(NA)	(NA)
1967 Census.....	72	46	6.6	48.7	4.8	10.3	31.1	104.9	160.0	265.5	10.6	80.9	37.4	85	56
1966 ASM	(NA)	(NA)	4.7	34.3	3.4	7.4	22.1	64.5	103.4	165.9	6.6	(NA)	27.3	(NA)	(NA)
1965 ASM	(NA)	(NA)	4.3	30.9	2.8	6.7	18.4	51.7	114.0	164.0	5.5	(NA)	25.6	(NA)	(NA)
1964 ASM	(NA)	(NA)	4.1	28.3	3.0	6.1	18.0	49.3	105.7	156.8	*5.6	70.4	23.2	(NA)	(NA)
1963 Census.....	65	38	4.1	27.1	3.0	6.3	17.7	51.6	99.0	151.6	5.7	67.6	24.3	86	41
1962 ASM	(NA)	(NA)	3.5	23.7	2.4	5.5	15.2	48.9	74.5	120.6	*4.9	60.7	20.8	(NA)	(NA)
1961 ASM	(NA)	(NA)	3.1	20.8	2.2	5.0	13.5	40.2	63.1	102.2	*4.0	(NA)	17.3	(NA)	(NA)
1960 ASM	(NA)	(NA)	3.3	20.9	2.4	5.5	13.5	43.1	66.7	109.5	(S)	(NA)	17.2	(NA)	(NA)
1959 ASM	(NA)	(NA)	3.4	20.8	2.4	5.5	14.2	41.6	70.3	110.1	(S)	(NA)	18.2	(NA)	(NA)
1958 Census.....	66	31	3.5	18.7	2.5	5.1	12.1	38.1	59.2	96.4	3.3	(NA)	12.5	83	52
INDUSTRY 3498.--FABRICATED PIPE AND FITTINGS															
1972 Census.....	423	202	17.5	164.7	13.2	25.9	112.4	363.1	352.1	704.4	14.7	(NA)	157.5	94	90
1971 ASM	(NA)	(NA)	16.5	145.2	12.6	24.6	97.7	297.1	301.3	594.7	12.6	143.9	136.9	(NA)	(NA)
1970 ASM	(NA)	(NA)	16.2	138.7	12.4	25.2	95.1	270.9	272.0	540.3	13.5	138.1	130.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	16.5	117.7	12.4	26.3	78.8	251.3	336.7	588.9	20.8	159.7	138.1	(NA)	(NA)
1968 ASM	(NA)	(NA)	18.4	134.9	13.9	28.6	94.6	255.9	317.5	569.4	17.7	132.3	125.5	(NA)	(NA)
1967 Census.....	393	197	18.2	129.1	13.4	27.4	86.6	238.5	274.4	508.1	14.4	124.8	100.7	95	90
1966 ASM	(NA)	(NA)	16.3	109.9	11.8	24.4	70.3	171.3	287.4	463.0	8.8	(NA)	74.2	(NA)	(NA)
1965 ASM	(NA)	(NA)	15.4	96.5	11.5	22.9	65.6	172.1	221.4	400.5	6.3	(NA)	84.0	(NA)	(NA)
1964 ASM	(NA)	(NA)	14.0	88.1	10.4	21.1	59.6	163.8	185.3	348.0	4.6	95.9	72.9	(NA)	(NA)
1963 Census.....	349	146	13.0	79.1	9.3	18.7	51.7	144.6	161.5	305.6	5.1	92.4	69.8	92	91
1962 ASM	(NA)	(NA)	12.1	77.3	8.7	17.8	50.5	130.3	175.3	301.6	3.4	86.4	70.7	(NA)	(NA)
1961 ASM	(NA)	(NA)	11.8	72.0	8.5	17.0	46.1	136.4	156.3	287.4	*5.2	(NA)	70.1	(NA)	(NA)
1960 ASM	(NA)	(NA)	13.5	77.5	9.7	19.9	50.7	124.3	178.5	305.0	5.2	(NA)	73.4	(NA)	(NA)
1959 ASM	(NA)	(NA)	13.3	78.0	9.7	20.0	50.2	143.4	185.9	327.1	5.5	(NA)	79.3	(NA)	(NA)
1958 Census.....	266	136	15.2	84.0	11.1	22.2	55.3	155.6	174.7	330.0	4.1	(NA)	82.3	89	93
1972 INDUSTRY 3499.--FABRICATED METAL PRODUCTS, N.E.C. (1967 INDUSTRIES 3492, 3496, AND 3499)															
1972 Census ⁴	2,342	652	61.5	507.6	46.9	91.6	335.5	1,037.8	885.7	1,918.3	61.4	(NA)	299.2	89	74
1971 ASM	(NA)	(NA)	52.9	415.1	39.8	77.9	275.4	872.1	722.1	1,590.2	38.6	491.8	277.2	(NA)	(NA)
1970 ASM	(NA)	(NA)	57.4	422.0	44.1	87.4	280.1	871.6	692.0	1,543.4	42.6	459.4	275.1	(NA)	(NA)
1969 ASM	(NA)	(NA)	54.7	393.5	42.3	85.8	259.9	826.9	642.1	1,445.5	53.2	(NA)	233.0	(NA)	(NA)
1968 ASM	(NA)	(NA)	50.2	337.9	39.4	79.1	224.8	719.7	575.5	1,287.4	35.7	387.4	193.9	(NA)	(NA)
1967 Census.....	1,317	500	49.4	310.3	39.3	78.5	211.2	627.8	522.5	1,145.4	39.1	378.8	164.5	(NA)	(NA)
1966 ASM	(NA)	(NA)	45.4	277.8	36.2	72.3	189.4	544.4	484.9	1,007.1	*35.4	(NA)	157.4	(NA)	(NA)
1965 ASM	(NA)	(NA)	38.8	227.6	30.5	63.0	157.9	449.5	407.7	852.3	*31.2	(NA)	128.3	(NA)	(NA)
1964 ASM	(NA)	(NA)	38.7	218.3	30.6	63.0	149.1	408.7	373.7	793.6	24.9	245.7	108.5	(NA)	(NA)
1963 Census.....	1,333	380	35.6	192.5	28.0	57.4	133.9	386.1	321.0	702.2	19.9	224.9	112.3	(NA)	(NA)
1962 ASM	(NA)	(NA)	31.5	170.0	24.0	50.7	113.0	317.7	278.2	588.1	*19.6	209.8	90.5	(NA)	(NA)
1961 ASM	(NA)	(NA)	28.8	141.1	21.4	45.6	98.2	280.6	240.0	519.1	12.8	(NA)	81.0	(NA)	(NA)
1960 ASM	(NA)	(NA)	30.1	149.2	22.9	48.0	100.5	275.3	245.9	518.5	14.3	(NA)	85.1	(NA)	(NA)
1959 ASM	(NA)	(NA)	30.7	146.0	23.9	46.1	101.1	284.9	228.2	508.9	(NA)	(NA)	80.6	(NA)	(NA)
1958 Census.....	1,029	245	27.5	125.1	21.3	41.1	85.9	244.9	198.1	443.6	13.7	(NA)	73.8	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry 3493	1972 industry 3494	1972 industry 3495	1972 industry 3496	1967 industry 3481	1972 industry 3497	1972 industry 3498	1972 industry 3499	1967 industry 3492	1967 industry 3496	1967 industry 3499
1972.....	99	645	206	1,157	(X)	54	373	2,254	(X)	(X)	(X)
1967.....	105	575	(X)	(X)	1,430	59	356	(X)	28	15	1,223
1963.....	91	580	(X)	(X)	1,464	56	328	(X)	28	18	1,254

(X) Not applicable. (NA) Not available. (S) Withheld because the data did not meet publication standards. *These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

Footnotes continued on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A--Continued)

¹For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

²Data on this new industry for 1967, 1963, and 1958 were derived from Table 8, "General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization," in volume II of the 1967, 1963, and 1958 censuses of manufactures. Separate data for other years are not available.

³The 1972 data are not strictly comparable to 1971 and prior years because of revisions in the 1972 Standard Industrial Classification. For 1972, these statistics are the combined totals for industries 3495 and 3496 on the new SIC basis. For 1971 and prior years, they are the totals for industry 3481 as classified on the old SIC basis. Because of changes in the product mix for several plants classified in these industries, the combined 1972 establishment count for industries 3495 and 3496 on the new SIC basis is not necessarily identical to the establishment count for industry 3481 on the old SIC basis. (See table 1C.) However, the effect of these changes is estimated to be less than 4 percent of the total value of shipments for the combined 1972 industries 3495 and 3496.

⁴The 1972 data are not strictly comparable to 1971 and prior years because of revisions in the 1972 Standard Industrial Classification. For 1972, these statistics are the totals for industry 3499 on the new SIC basis. For 1971 and prior years, they are the combined totals for industries 3492, 3496, and 3499 as classified on the old SIC basis. Because of changes in the product mix for several plants classified in these industries, the 1972 establishment count for industry 3499 on the new SIC basis is not necessarily identical to the combined establishment count for industries 3492, 3496, and 3499 on the old SIC basis. (See table 1C.) However, the effect of these changes is estimated to be less than 2 percent of the total value of shipments for 1972 industry 3499.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3493.--STEEL SPRINGS, EXCEPT WIRE											
1972 Census.....	9,408	(NA)	78	1,991	4.29	.55	.79	(NA)	17,630	53	11.26
1971 ASM.....	8,307	10,630	78	1,942	3.94	.53	.78	.32	15,398	54	10.11
1970 ASM.....	7,842	9,120	80	1,895	3.72	.53	.81	.33	13,263	59	8.75
1969 ASM.....	7,915	9,230	82	2,104	3.38	.55	.80	.30	14,085	56	8.17
1968 ASM.....	7,253	7,960	81	2,081	3.17	.52	.77	.27	14,409	50	8.52
1967 Census.....	7,000	9,040	81	2,032	3.16	.52	.80	.36	11,948	59	7.30
1966 ASM.....	6,961	(NA)	80	2,090	3.11	.57	.83	(NA)	11,753	59	7.01
1965 ASM.....	6,804	(NA)	80	2,061	3.09	.59	.86	(NA)	10,395	65	6.33
1964 ASM.....	6,807	7,000	81	2,079	3.08	.56	.82	.27	11,612	59	6.93
1963 Census.....	6,572	6,330	81	2,081	2.95	.56	.83	.25	11,024	60	6.52
1962 ASM.....	6,492	5,530	78	2,108	2.91	.54	.81	.23	10,987	59	6.68
1961 ASM.....	6,068	(NA)	77	2,024	2.80	.54	.83	(NA)	9,520	64	6.11
1960 ASM.....	6,085	(NA)	79	2,047	2.77	.55	.83	(NA)	9,872	62	6.11
1959 ASM.....	5,768	(NA)	79	1,975	2.67	.56	.83	(NA)	9,557	60	6.12
1958 Census.....	5,269	(NA)	78	1,903	2.56	.54	.84	(NA)	8,011	66	5.43
INDUSTRY 3494.--VALVES AND PIPE FITTINGS											
1972 Census.....	9,317	(NA)	70	1,998	4.17	.42	.72	(NA)	18,551	50	13.33
1971 ASM.....	8,815	12,090	70	1,988	3.94	.42	.69	.40	17,396	51	12.55
1970 ASM.....	8,331	10,970	69	2,006	3.72	.43	.73	.40	16,041	52	11.52
1969 ASM.....	7,800	9,260	71	2,035	3.37	.43	.73	.36	15,306	51	10.59
1968 ASM.....	7,404	8,750	71	2,012	3.23	.41	.71	.36	14,815	50	10.40
1967 Census.....	7,172	8,320	71	2,050	3.09	.41	.72	.35	14,452	50	9.91
1966 ASM.....	6,968	(NA)	72	2,097	2.96	.42	.71	(NA)	14,337	49	9.53
1965 ASM.....	6,605	(NA)	72	2,054	2.85	.42	.72	(NA)	13,265	50	9.00
1964 ASM.....	6,516	7,250	72	2,085	2.80	.42	.74	.35	12,262	53	8.14
1963 Census.....	6,218	6,960	72	2,011	2.75	.41	.73	.35	11,724	53	8.06
1962 ASM.....	6,047	6,470	71	2,009	2.68	.42	.73	.33	11,479	53	8.01
1961 ASM.....	5,846	(NA)	71	1,982	2.58	.43	.75	(NA)	10,751	54	7.64
1960 ASM.....	5,662	(NA)	72	1,950	2.58	.43	.75	(NA)	10,255	55	7.28
1959 ASM.....	5,585	(NA)	74	1,974	2.53	.42	.74	(NA)	10,805	52	7.41
1958 Census.....	5,338	(NA)	73	1,978	2.44	.41	.73	(NA)	9,534	56	6.62
INDUSTRY 3495.--WIRE SPRINGS (1972 SIC BASIS)											
1972 Census.....	8,162	(NA)	84	2,024	3.61	.45	.76	(NA)	14,393	57	8.52
INDUSTRY 3496.--MISCELLANEOUS FABRICATED WIRE PRODUCTS (1972 SIC BASIS)											
1972 Census.....	7,885	(NA)	80	1,947	3.43	.48	.75	(NA)	15,220	52	9.76

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
1967 INDUSTRY 3481.--MISCELLANEOUS FABRICATED WIRE PRODUCTS (1972 INDUSTRIES 3495 AND 3496)											
1972 Census ¹	7,996	(NA)	82	1,978	3.51	.47	.76	(NA)	14,868	.54	9.22
1971 ASM.....	7,513	8,610	81	1,963	3.29	.45	.75	.34	13,732	.55	8.63
1970 ASM.....	6,982	8,170	82	1,969	3.05	.44	.75	.36	13,052	.54	8.08
1969 ASM.....	6,561	6,600	83	1,960	2.87	.44	.74	.31	12,180	.54	7.49
1968 ASM.....	6,556	6,490	83	1,998	2.81	.44	.74	.30	12,320	.53	7.45
1967 Census.....	6,047	6,520	82	2,008	2.60	.45	.75	.32	11,121	.54	6.76
1966 ASM.....	5,978	(NA)	83	2,350	2.19	.46	.76	(NA)	10,988	.54	5.67
1965 ASM.....	5,770	(NA)	83	2,046	2.43	.47	.76	(NA)	10,671	.54	6.30
1964 ASM.....	5,539	6,185	82	2,064	2.37	.48	.78	.33	9,804	.56	5.83
1963 Census.....	5,361	6,092	81	2,043	2.32	.48	.76	.33	9,712	.55	5.85
1962 ASM.....	5,393	5,185	80	2,079	2.25	.48	.78	.29	9,300	.58	5.58
1961 ASM.....	5,231	(NA)	80	2,071	2.19	.48	.79	(NA)	8,893	.59	5.38
1960 ASM.....	5,047	(NA)	80	2,036	2.19	.49	.79	(NA)	8,525	.59	5.22
1959 ASM.....	5,089	(NA)	81	2,096	2.15	.49	.79	(NA)	8,817	.58	5.18
1958 Census.....	4,703	(NA)	80	1,955	2.14	.49	.79	(NA)	7,930	.59	5.10
INDUSTRY 3497.--METAL FOIL AND LEAF											
1972 Census.....	9,704	(NA)	74	2,050	4.09	.56	.74	(NA)	23,704	.41	15.60
1971 ASM.....	9,321	20,130	70	2,054	3.88	.61	.79	.40	19,396	.48	13.53
1970 ASM.....	8,917	17,370	72	2,070	3.70	.59	.78	.37	18,867	.47	12.72
1969 ASM.....	8,358	14,970	75	2,080	3.52	.60	.79	.34	18,224	.46	11.74
1968 ASM.....	7,657	13,250	75	2,040	3.26	.60	.78	.32	17,119	.45	11.25
1967 Census.....	7,379	12,260	73	2,146	3.02	.60	.79	.30	15,894	.46	10.18
1966 ASM.....	7,298	(NA)	72	2,176	3.02	.62	.83	(NA)	13,723	.53	8.72
1965 ASM.....	7,186	(NA)	65	2,392	2.75	.70	.88	(NA)	12,232	.60	7.72
1964 ASM.....	6,902	17,170	73	2,033	2.95	.67	.85	.45	12,024	.57	8.08
1963 Census.....	6,609	16,490	73	2,100	2.80	.65	.83	.45	12,585	.53	8.19
1962 ASM.....	6,836	17,340	70	2,263	2.79	.62	.81	.50	14,116	.48	8.97
1961 ASM.....	6,699	(NA)	72	2,232	2.72	.62	.82	(NA)	12,946	.52	8.10
1960 ASM.....	6,378	(NA)	72	2,310	2.46	.61	.80	(NA)	13,168	.48	7.88
1959 ASM.....	6,173	(NA)	72	2,271	2.57	.64	.83	(NA)	12,310	.50	7.50
1958 Census.....	5,345	(NA)	72	2,042	2.35	.61	.81	(NA)	10,875	.49	7.39
INDUSTRY 3498.--FABRICATED PIPE AND FITTINGS											
1972 Census.....	9,411	(NA)	75	1,962	4.34	.50	.73	(NA)	20,749	.45	14.02
1971 ASM.....	8,800	8,720	76	1,952	3.97	.51	.75	.24	18,006	.49	12.08
1970 ASM.....	8,562	8,520	77	2,032	3.77	.50	.76	.26	16,722	.51	10.75
1969 ASM.....	7,133	9,680	75	2,121	3.00	.57	.77	.27	15,230	.47	9.56
1968 ASM.....	7,332	7,190	76	2,058	3.31	.56	.79	.23	13,908	.53	8.95
1967 Census.....	7,093	6,860	74	2,045	3.16	.54	.79	.25	13,104	.54	8.70
1966 ASM.....	6,732	(NA)	73	2,059	2.89	.62	.86	(NA)	10,509	.64	7.02
1965 ASM.....	6,283	(NA)	75	1,993	2.86	.55	.79	(NA)	11,208	.56	7.51
1964 ASM.....	6,277	6,850	74	2,030	2.82	.53	.79	.28	11,661	.54	7.76
1963 Census.....	6,080	7,110	72	2,004	2.76	.53	.79	.30	11,117	.55	7.72
1962 ASM.....	6,396	7,140	72	2,043	2.84	.58	.84	.29	10,775	.59	7.33
1961 ASM.....	6,080	(NA)	72	1,995	2.72	.54	.79	(NA)	11,523	.53	8.04
1960 ASM.....	5,759	(NA)	72	2,042	2.55	.59	.84	(NA)	9,229	.62	6.25
1959 ASM.....	5,850	(NA)	73	2,061	2.51	.57	.81	(NA)	10,757	.54	7.17
1958 Census.....	5,522	(NA)	73	1,996	2.49	.53	.78	(NA)	10,229	.54	7.00
1972 INDUSTRY 3499.--FABRICATED METAL PRODUCTS, N.E.C. (1967 INDUSTRIES 3492, 3496, AND 3499)											
1972 Census ²	8,254	(NA)	76	1,953	3.66	.46	.73	(NA)	16,875	.49	11.33
1971 ASM.....	7,847	9,300	75	1,957	3.54	.45	.72	.31	16,486	.48	11.20
1970 ASM.....	7,352	8,003	77	1,982	3.21	.45	.72	.30	15,185	.48	9.97
1969 ASM.....	7,194	(NA)	77	2,028	3.03	.44	.72	(NA)	15,117	.48	9.64
1968 ASM.....	6,731	7,720	78	2,008	2.84	.45	.71	.30	14,337	.47	9.10
1967 Census.....	6,281	7,670	80	1,997	2.69	.46	.73	.33	12,709	.49	8.00
1966 ASM.....	6,119	(NA)	80	1,997	2.62	.48	.76	(NA)	11,991	.51	7.53
1965 ASM.....	5,866	(NA)	79	2,066	2.51	.48	.75	(NA)	11,585	.51	7.13
1964 ASM.....	5,641	6,350	79	2,059	2.37	.47	.75	.31	10,561	.53	6.49
1963 Census.....	5,407	6,320	79	2,050	2.33	.46	.73	.32	10,846	.50	6.73
1962 ASM.....	5,397	6,660	76	2,113	2.23	.47	.76	.36	10,086	.54	6.27
1961 ASM.....	4,899	(NA)	74	2,131	2.15	.46	.73	(NA)	9,743	.50	6.15
1960 ASM.....	4,957	(NA)	76	2,096	2.09	.47	.76	(NA)	9,146	.54	5.74
1959 ASM.....	4,756	(NA)	78	1,929	2.19	.45	.74	(NA)	9,280	.51	6.18
1958 Census.....	4,549	(NA)	77	1,930	2.09	.45	.73	(NA)	8,942	.51	5.96

(NA) Not available.

¹The 1972 data are not strictly comparable with 1971 and prior years. (See footnote 3, table 1A.)²The 1972 data are not strictly comparable with 1971 and prior years. (See footnote 3, table 1A.)

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3495.--Wire Springs.....	284	216	23.7	340.7	611.9	(X)	(X)	(X)	(X)	(X)
Old industry 3481.--Miscellaneous Fabricated Wire Products.	284	216	23.7	340.7	611.9	1,484	614	54.8	811.2	1,505.4
New industry 3496.--Miscellaneous Fabricated Wire Products.	1,210	411	33.1	503.8	958.7	(X)	(X)	(X)	(X)	(X)
Old industry 3481.--Miscellaneous Fabricated Wire Products.	1,210	411	33.1	503.8	958.7	1,484	614	54.8	811.2	1,505.4
New industry 3499.--Fabricated Metal Products, N.E.C.....	2,342	652	61.5	1,037.8	1,918.3	(X)	(X)	(X)	(X)	(X)
Old industry 3492.--Safes and Vaults.....	45	19	4.1	79.1	128.2	45	19	4.1	79.1	128.2
Old industry 3496.--Collapsible Tubes.....	20	17	2.6	29.0	46.0	21	18	(¹)	(¹)	(¹)
Old industry 3499.--Fabricated Metal Products, N.E.C.....	2,277	616	54.8	929.7	1,744.1	2,276	617	157.7	1,934.2	1,780.5

(X) Not applicable.

¹Totals for old industry 3496 on old SIC basis combined with totals for old industry 3499 on old SIC basis to avoid disclosing figures for individual company.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3493-- STEEL SPRINGS, EXCEPT WIRE													
UNITED STATES,	110	53	8.5	79.9	6.7	13.3	56.9	149.7	183.1	331.4	6.6	7.7	92.0
NORTHEAST REGION	30	13	2.7	27.1	2.0	3.9	18.7	48.8	46.1	93.7	2.6	2.1	27.2
NEW ENGLAND DIVISION	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT,	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	25	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	26.2
NEW YORK	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PENNSYLVANIA	19	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION	42	25	3.4	36.4	2.7	5.5	25.3	69.9	108.6	178.4	2.4	FF	(D)
EAST NORTH CENTRAL DIVISION, . . .	34	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	51.9
OHIO	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.8
INDIANA	4	4	.6	6.6	.5	1.1	5.2	12.0	13.4	24.9	.7	.5	7.3
ILLINOIS	13	5	1.0	11.0	.7	1.6	6.4	22.3	54.8	77.0	.5	BB	(D)
MICHIGAN	10	8	1.0	11.2	.9	1.7	8.6	20.8	23.0	43.9	.4	EE	(D)
WEST NORTH CENTRAL DIVISION, . . .	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION	16	8	2.0	12.5	1.7	3.3	10.2	25.7	21.9	47.6	1.4	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION, . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KENTUCKY	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION, E2	22	7	.4	3.9	.3	.6	2.7	5.2	6.5	11.7	.1	.4	4.4
PACIFIC DIVISION E1	20	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA E2	13	6	.3	3.0	.2	.4	2.1	3.7	5.1	8.8	.1	.3	3.2
3494-- VALVES AND PIPE FITTINGS													
UNITED STATES,	779	463	93.9	874.9	65.4	130.7	544.5	1 741.9	1 239.9	2 941.3	79.0	95.3	1 377.3
NORTHEAST REGION	244	146	26.3	250.4	17.7	35.9	151.3	505.7	313.2	805.1	21.8	29.1	428.0
NEW ENGLAND DIVISION	71	40	7.0	63.1	4.5	9.3	35.6	125.4	92.6	216.9	6.1	8.7	128.6
NEW HAMPSHIRE,	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS,	34	19	3.9	36.2	2.3	5.0	20.3	79.1	54.3	134.1	3.7	5.3	76.9
RHODE ISLAND, E2	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT,	22	12	1.9	17.5	1.3	2.7	10.6	33.3	22.4	55.5	1.2	1.9	26.9
MIDDLE ATLANTIC DIVISION	173	106	19.3	187.3	13.2	26.6	115.8	380.3	220.7	588.2	15.7	20.3	299.5
NEW YORK	49	26	4.5	45.6	3.2	6.5	29.9	87.7	53.2	136.2	4.4	4.4	58.7
NEW JERSEY	48	30	4.7	49.3	2.8	5.8	25.9	111.8	51.1	160.7	2.6	4.8	80.1
PENNSYLVANIA	76	50	10.0	92.5	7.1	14.3	59.9	180.9	116.5	291.3	8.6	11.1	160.7
NORTH CENTRAL REGION	251	160	37.9	362.9	26.0	51.4	222.2	690.7	519.4	1 204.1	29.0	39.4	567.9
EAST NORTH CENTRAL DIVISION, . . .	220	140	30.3	291.5	21.0	41.9	180.5	549.6	435.3	980.4	22.2	31.8	446.3
OHIO	65	42	8.0	74.3	5.9	12.3	49.7	166.6	118.2	279.9	5.9	10.8	135.4
INDIANA	25	16	3.1	27.0	2.2	4.6	16.8	56.8	53.5	106.5	1.5	3.1	41.8
ILLINOIS	59	41	10.3	104.5	6.9	13.7	63.6	168.5	145.0	314.7	6.3	11.7	162.0
MICHIGAN	49	31	4.6	44.0	3.3	6.5	27.2	95.2	75.9	173.6	3.6	4.3	83.4
WISCONSIN,	22	10	4.2	41.6	2.6	4.9	23.1	62.5	42.6	105.8	4.8	1.9	23.6

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3494-- VALVES AND PIPE FITTINGS--CON.													
NORTH CENTRAL REGION--CON.													
WEST NORTH CENTRAL DIVISION. . .	31	20	7.6	71.4	5.0	9.5	41.8	141.0	84.1	223.7	6.8	7.7	121.6
MINNESOTA.	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
IOWA.	8	6	3.7	37.0	2.3	4.1	20.2	77.6	37.2	113.0	3.2	3.2	50.1
MISSOURI.	9	6	2.2	18.9	1.6	3.1	12.5	28.7	26.4	55.8	1.1	2.9	49.8
NEBRASKA. E2	6	3	.5	4.2	.3	.7	2.3	10.7	7.2	17.7	.2	BB	(D)
SOUTH REGION.	157	96	22.0	183.9	16.5	32.8	125.9	382.1	301.4	668.7	20.9	18.6	257.4
SOUTH ATLANTIC DIVISION. . . .	35	18	2.1	17.0	1.6	3.2	11.4	35.8	33.5	69.6	2.5	2.5	34.5
VIRGINIA.	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA.	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA.	9	8	1.1	8.8	.7	1.5	5.5	21.0	14.4	36.1	.9	1.1	16.0
FLORIDA. E1	14	3	.3	1.9	.2	.4	1.2	3.3	2.0	5.2	.5	.3	3.1
EAST SOUTH CENTRAL DIVISION. . .	19	16	8.6	71.4	6.8	13.4	53.7	158.0	100.6	253.1	7.9	7.6	104.6
KENTUCKY.	4	4	2.6	23.1	1.9	3.5	15.4	48.1	37.2	83.7	1.0	2.9	39.3
TENNESSEE.	8	7	1.9	15.7	1.5	3.0	12.1	38.9	28.0	67.5	1.9	EE	(D)
ALABAMA.	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	40.7
WEST SOUTH CENTRAL DIVISION. . .	103	62	11.3	95.6	8.1	16.2	60.7	188.4	167.3	346.0	10.5	8.5	118.2
ARKANSAS.	7	6	1.8	11.2	1.6	3.0	8.8	25.2	22.3	46.6	3.0	CC	(D)
LOUISIANA.	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
OKLAHOMA.	20	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	16.0
TEXAS.	69	42	7.3	64.6	5.1	10.3	41.4	120.4	118.5	232.4	5.7	5.7	81.4
WEST REGION.	127	61	7.6	77.6	5.1	10.4	45.0	163.3	105.8	263.4	7.4	8.1	123.9
MOUNTAIN DIVISION.	11	7	1.3	12.4	.9	2.0	7.7	27.4	18.9	45.3	.8	.9	11.5
COLORADO.	4	4	1.1	11.0	.8	1.7	6.8	24.2	17.2	40.6	.6	CC	(D)
PACIFIC DIVISION.	116	54	6.3	65.2	4.2	8.4	37.3	135.9	86.9	218.2	6.6	7.3	112.4
CALIFORNIA.	105	52	6.1	63.8	4.1	8.3	36.3	132.5	84.0	212.0	6.6	7.1	108.2
3495-- WIRE SPRINGS													
UNITED STATES.	284	216	23.7	193.2	19.8	40.0	144.5	340.7	273.3	611.9	12.9	(NA)	(NA)
NORTHEAST REGION.	74	51	4.3	33.8	3.5	7.3	24.2	61.8	37.8	98.7	1.8	(NA)	(NA)
NEW ENGLAND DIVISION.	39	30	2.4	19.2	2.0	4.3	14.0	29.8	21.3	50.7	1.4	(NA)	(NA)
MASSACHUSETTS.	9	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT.	29	21	1.8	15.4	1.6	3.5	11.4	24.0	12.4	35.9	1.0	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . .	35	21	1.9	14.6	1.5	3.0	10.3	31.9	16.6	48.1	.5	(NA)	(NA)
NEW YORK.	16	8	.7	5.3	.6	1.1	3.4	12.5	4.8	17.1	.2	(NA)	(NA)
NEW JERSEY.	9	4	.3	2.3	.3	.5	1.9	4.3	3.6	7.8	.1	(NA)	(NA)
PENNSYLVANIA.	10	9	.9	7.0	.7	1.3	4.9	15.1	8.2	23.2	.2	(NA)	(NA)
NORTH CENTRAL REGION.	120	96	12.8	113.2	10.7	21.8	86.1	192.7	158.6	349.8	7.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	110	87	11.2	102.4	9.3	19.3	77.8	173.9	140.2	313.3	7.4	(NA)	(NA)
OHIO.	26	17	1.3	10.9	1.1	2.4	7.9	18.3	15.3	33.2	1.6	(NA)	(NA)
INDIANA.	15	14	1.6	14.2	1.3	2.8	10.7	25.8	25.0	50.9	1.4	(NA)	(NA)
ILLINOIS.	41	31	4.2	37.2	3.5	7.3	28.9	57.9	45.3	102.7	2.2	(NA)	(NA)
MICHIGAN.	24	21	3.8	38.2	3.1	6.4	28.9	68.9	52.0	121.0	2.1	(NA)	(NA)
WISCONSIN.	4	4	.3	2.0	.2	.4	1.4	2.9	2.7	5.5	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	10	9	1.5	10.8	1.4	2.6	8.3	18.8	18.4	36.5	.3	(NA)	(NA)
MISSOURI.	4	3	.7	5.4	.6	1.1	3.8	8.1	10.3	18.1	.3	(NA)	(NA)
NEBRASKA.	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION.	43	35	4.4	28.5	3.8	7.4	21.2	54.6	54.9	109.0	2.5	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . .	20	16	1.7	11.0	1.5	2.8	8.1	17.7	19.9	37.2	1.0	(NA)	(NA)
MARYLAND.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA.	13	10	1.3	8.6	1.1	2.1	6.1	13.7	16.0	29.3	.8	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	11	10	1.7	11.2	1.4	3.0	8.3	25.1	23.6	49.0	1.3	(NA)	(NA)
KENTUCKY.	4	4	1.2	9.0	1.0	2.2	6.5	21.1	19.2	40.5	1.0	(NA)	(NA)
TENNESSEE.	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI.	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	12	9	1.0	6.4	.8	1.6	4.8	11.8	11.4	22.8	.2	(NA)	(NA)
ARKANSAS.	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS.	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION.	47	34	2.2	17.7	1.8	3.5	12.9	31.6	22.0	54.3	.8	(NA)	(NA)
MOUNTAIN DIVISION.	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION.	41	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA.	35	26	1.8	14.8	1.5	2.8	10.8	25.9	18.0	44.6	.7	(NA)	(NA)
3496-- MISC. FABRICATED WIRE PRODUCTS													
UNITED STATES. E1	1 210	411	33.1	261.0	26.5	51.6	177.0	503.8	462.3	958.7	28.9	(NA)	(NA)
NORTHEAST REGION. E1	415	138	11.5	90.9	9.2	18.2	61.4	171.9	136.1	305.8	8.8	(NA)	(NA)
NEW ENGLAND DIVISION. E1	111	32	2.7	19.9	2.1	4.0	13.2	36.6	25.8	63.1	2.0	(NA)	(NA)
MASSACHUSETTS. E2	49	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. E1	41	12	1.3	11.0	1.1	2.1	7.3	22.0	13.7	34.5	1.0	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . E1	304	106	8.9	71.0	7.1	14.2	48.2	133.3	110.2	242.7	6.9	(NA)	(NA)
NEW YORK. E2	148	53	3.7	28.2	3.0	5.9	19.5	55.7	36.6	91.7	3.3	(NA)	(NA)
NEW JERSEY.	68	20	1.7	14.4	1.3	2.7	9.3	24.2	22.3	46.1	1.2	(NA)	(NA)
PENNSYLVANIA.	88	33	3.4	28.3	2.8	5.5	19.5	53.4	51.3	104.9	2.3	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3496-- MISC. FABRICATED WIRE PRODUCTS-- CONTINUED													
NORTH CENTRAL REGION E1	372	153	12.2	102.0	9.9	19.0	70.5	183.7	182.2	362.6	9.0	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . E1	306	129	9.3	76.2	7.5	14.6	52.2	151.1	129.0	278.9	6.8	(NA)	(NA)
OHIO	77	33	2.4	20.7	1.9	3.6	13.7	37.2	34.2	70.5	1.1	(NA)	(NA)
INDIANA	38	16	1.2	9.1	1.0	1.9	6.9	26.4	24.9	51.3	.7	(NA)	(NA)
ILLINOIS E2	113	45	3.2	25.0	2.5	4.9	16.6	48.2	39.5	87.4	3.3	(NA)	(NA)
MICHIGAN E1	58	27	2.0	16.8	1.6	3.2	11.7	31.1	25.2	56.4	1.3	(NA)	(NA)
WISCONSIN E1	20	8	.6	4.6	.5	1.0	3.4	8.1	5.2	13.3	.4	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	66	24	2.9	25.8	2.4	4.5	18.2	32.6	53.2	83.7	2.2	(NA)	(NA)
MINNESOTA	15	6	1.3	13.2	1.0	1.9	9.8	8.4	33.8	40.3	.4	(NA)	(NA)
IOWA	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI	23	9	.9	7.2	.7	1.4	4.6	13.0	9.1	22.0	1.2	(NA)	(NA)
KANSAS E1	10	4	.3	2.0	.2	.4	1.4	4.2	4.2	8.1	.2	(NA)	(NA)
SOUTH REGION E1	216	72	6.2	42.9	5.0	9.5	27.6	93.8	96.2	188.8	8.5	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . E1	85	19	1.6	11.2	1.2	2.3	6.9	25.9	26.6	54.0	2.4	(NA)	(NA)
MARYLAND	14	5	.5	3.9	.3	.7	2.3	7.6	5.6	13.9	.2	(NA)	(NA)
VIRGINIA E1	14	3	.4	2.4	.2	.4	1.2	3.8	4.4	9.4	.2	(NA)	(NA)
NORTH CAROLINA	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA E4	33	4	.3	1.7	.2	.5	1.2	4.3	3.5	7.8	.3	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	51	30	2.1	13.6	1.7	3.3	9.8	30.4	29.5	58.3	3.3	(NA)	(NA)
KENTUCKY E1	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE E1	22	13	1.0	5.7	.8	1.6	4.5	12.9	11.0	23.3	1.6	(NA)	(NA)
ALABAMA	18	11	.7	5.1	.6	1.1	3.3	10.6	14.6	24.3	.9	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E2	80	23	2.6	18.0	2.0	3.9	10.8	37.4	40.0	76.5	2.7	(NA)	(NA)
ARKANSAS	5	4	.5	3.0	.4	.7	1.9	6.0	3.9	9.8	.3	(NA)	(NA)
OKLAHOMA E1	10	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS E3	60	18	1.7	12.5	1.4	2.7	7.6	23.8	27.0	50.5	2.0	(NA)	(NA)
WEST REGION. E1	207	48	3.1	25.2	2.5	4.9	17.6	54.5	47.8	101.5	2.6	(NA)	(NA)
MOUNTAIN DIVISION. E5	27	5	.3	1.8	.2	.4	1.2	4.8	4.4	9.2	.2	(NA)	(NA)
PACIFIC DIVISION E1	180	43	2.8	23.4	2.3	4.5	16.4	49.8	43.4	92.3	2.4	(NA)	(NA)
WASHINGTON	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON	13	3	.2	2.0	.2	.3	1.4	4.2	3.2	7.5	.1	(NA)	(NA)
CALIFORNIA E1	154	37	2.4	19.4	2.0	3.9	13.6	41.0	36.7	77.2	2.2	(NA)	(NA)
3497-- METAL FOIL AND LEAF													
UNITED STATES.	65	41	5.4	52.4	4.0	8.2	33.5	128.0	159.3	285.2	8.4	6.6	104.9
NORTHEAST REGION E1	29	18	1.7	17.3	1.2	2.4	9.5	39.5	38.6	78.7	3.6	2.0	30.5
NEW ENGLAND DIVISION	8	5	.4	3.3	.3	.5	1.9	7.5	7.6	15.2	.3	.5	8.1
CONNECTICUT.	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	7.0
MIDDLE ATLANTIC DIVISION . . . E1	21	13	1.3	14.0	.9	1.0	7.6	32.0	31.2	63.5	3.3	1.6	22.4
NEW YORK E3	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	9.3
NEW JERSEY E1	10	7	.9	10.0	.6	1.2	4.8	23.9	21.6	45.8	2.4	.8	10.4
NORTH CENTRAL REGION	11	9	2.2	23.0	1.6	3.3	15.3	48.8	58.0	105.4	2.8	3.2	50.2
EAST NORTH CENTRAL DIVISION. . .	11	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(DF)
OHIO	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS	6	5	.7	6.1	.5	1.1	4.3	12.6	18.9	31.0	.2	.6	11.2
SOUTH REGION	16	11	1.3	10.6	1.1	2.3	7.9	35.1	55.3	89.5	(D)	.9	15.8
SOUTH ATLANTIC DIVISION.	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
FLORIDA	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS.	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION.	9	3	.2	1.5	.1	.2	.9	4.6	7.2	11.6	(D)	.4	8.4
PACIFIC DIVISION	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3498-- FABRICATED PIPE AND FITTINGS													
UNITED STATES.	423	202	17.5	164.7	13.2	25.9	112.4	363.1	352.1	704.4	14.7	18.2	238.5
NORTHEAST REGION	113	62	5.0	46.7	3.5	6.4	28.2	100.7	97.3	192.5	3.2	5.9	73.3
NEW ENGLAND DIVISION E1	24	11	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.5
MASSACHUSETTS.	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION	89	51	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	68.9
NEW YORK	24	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.9
NEW JERSEY	23	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.7
PENNSYLVANIA	42	28	2.1	20.4	1.5	2.8	13.3	50.5	51.3	98.8	1.0	3.4	47.2
NORTH CENTRAL REGION	127	58	5.2	44.6	4.2	8.8	32.8	103.6	105.4	207.8	3.5	5.5	63.5
EAST NORTH CENTRAL DIVISION. . .	112	55	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.1	60.0
OHIO	29	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	28.0
INDIANA E2	11	4	.6	3.6	.5	1.0	3.0	6.3	5.0	11.2	(D)	BB	(D)
ILLINOIS	25	13	1.2	9.8	1.0	2.4	7.7	29.8	28.2	56.9	.9	1.1	12.5
MICHIGAN E1	38	22	1.4	12.6	1.2	2.2	9.4	27.1	24.1	51.1	.8	1.3	12.8
WISCONSIN.	9	2	.2	1.8	.2	.4	1.2	3.6	3.4	6.9	.1	AA	(D)
WEST NORTH CENTRAL DIVISION. . .	16	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.5
MINNESOTA.	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3498-- FABRICATED PIPE AND FITTINGS--													
CONTINUED													
SOUTH REGION	102	53	5.0	51.0	3.8	7.5	36.6	105.0	94.2	197.7	5.6	4.5	69.7
SOUTH ATLANTIC DIVISION	38	15	1.6	14.9	1.2	2.4	10.7	28.5	32.6	62.6	2.3	1.1	13.3
DELAWARE	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST VIRGINIA	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA	8	3	.4	3.9	.3	.6	2.7	5.5	9.4	15.4	(D)	AA	(D)
SOUTH CAROLINA	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	9	8	.7	6.0	.6	1.0	4.4	10.9	7.0	16.5	.7	.4	6.1
KENTUCKY E1	4	4	.4	3.6	.3	.6	2.5	7.4	3.6	9.7	(D)	AA	(D)
TENNESSEE	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION	55	30	2.8	30.1	2.1	4.0	21.5	65.6	54.6	118.7	2.7	3.0	50.3
OKLAHOMA	8	3	.2	2.0	.1	.2	1.3	3.4	2.9	6.3	.1	(NA)	(NA)
TEXAS	39	24	2.5	26.7	1.8	3.6	18.9	59.4	49.3	107.3	2.5	2.6	46.0
WEST REGION	80	28	2.1	20.1	1.5	3.0	13.0	46.2	49.5	93.0	1.8	2.3	32.0
MOUNTAIN DIVISION E1	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PACIFIC DIVISION	73	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WASHINGTON	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
OREGON	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.5
CALIFORNIA	58	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	21.6
3499-- FABRICATED METAL PRODUCTS, NEC													
UNITED STATES E1	2 342	652	61.5	507.6	46.9	91.6	335.5	1 037.8	885.7	1 918.3	61.4	(NA)	(NA)
NORTHEAST REGION E1	702	189	15.5	122.7	12.0	23.3	80.0	222.2	184.4	402.8	14.4	(NA)	(NA)
NEW ENGLAND DIVISION E1	188	52	5.1	42.2	3.7	7.4	25.9	74.7	60.7	134.0	6.6	(NA)	(NA)
MASSACHUSETTS E2	84	23	1.6	13.3	1.2	2.4	8.7	24.0	16.3	39.7	1.3	(NA)	(NA)
RHODE ISLAND E1	27	6	.6	4.9	.4	.8	2.9	7.8	4.6	12.8	.2	(NA)	(NA)
CONNECTICUT	61	22	2.7	23.3	2.0	4.1	13.8	41.3	38.4	78.6	5.0	(NA)	(NA)
MIDDLE ATLANTIC DIVISION E2	514	137	10.5	80.4	8.3	15.9	54.1	147.6	123.8	268.8	7.8	(NA)	(NA)
NEW YORK E2	237	52	3.6	26.7	2.9	5.4	18.0	49.5	40.3	89.2	2.6	(NA)	(NA)
NEW JERSEY E2	112	39	3.1	24.4	2.4	4.8	15.6	48.0	35.5	83.2	2.3	(NA)	(NA)
PENNSYLVANIA E1	145	46	3.8	29.4	3.0	5.7	20.4	50.1	48.0	96.4	2.9	(NA)	(NA)
NORTH CENTRAL REGION	797	252	27.5	239.3	20.6	40.7	157.6	522.2	422.0	945.4	19.2	(NA)	(NA)
EAST NORTH CENTRAL DIVISION	654	214	24.0	209.3	18.1	35.9	140.8	464.7	372.2	834.3	17.2	(NA)	(NA)
OHIO	155	59	9.3	85.4	6.7	13.3	56.1	193.6	143.8	339.4	6.0	(NA)	(NA)
INDIANA	63	24	2.6	20.5	2.0	3.9	13.7	35.5	34.2	69.1	2.6	(NA)	(NA)
ILLINOIS	228	79	8.2	70.5	6.3	12.5	48.4	168.4	142.2	307.6	5.8	(NA)	(NA)
MICHIGAN E2	145	39	2.9	25.6	2.3	4.6	17.6	51.3	38.0	88.3	2.2	(NA)	(NA)
WISCONSIN E1	63	13	1.1	7.4	.8	1.6	5.1	16.0	14.1	30.0	.7	(NA)	(NA)
WEST NORTH CENTRAL DIVISION	143	38	3.4	30.0	2.5	4.8	16.7	57.5	49.7	111.1	1.9	(NA)	(NA)
MINNESOTA E1	46	12	.9	7.4	.7	1.3	4.8	12.2	12.0	25.2	.6	(NA)	(NA)
IOWA	24	8	1.3	12.6	.8	1.7	5.6	23.8	18.7	44.4	.7	(NA)	(NA)
MISSOURI E1	46	13	.9	6.6	.7	1.3	4.5	12.0	13.5	26.7	.5	(NA)	(NA)
KANSAS E1	19	3	.3	2.6	.2	.4	1.3	7.9	4.2	12.0	.1	(NA)	(NA)
SOUTH REGION E1	458	126	11.8	89.0	9.4	18.3	61.4	178.6	174.0	353.1	14.3	(NA)	(NA)
SOUTH ATLANTIC DIVISION E1	210	61	4.6	34.9	3.6	6.9	23.3	75.5	79.6	157.7	6.3	(NA)	(NA)
MARYLAND	24	11	.9	8.0	.8	1.5	5.8	22.6	23.2	47.0	1.8	(NA)	(NA)
VIRGINIA E1	23	10	.5	3.3	.4	.7	2.4	5.6	7.5	13.1	.3	(NA)	(NA)
WEST VIRGINIA	14	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA E2	22	7	.4	3.2	.3	.6	2.1	5.5	4.1	9.2	.4	(NA)	(NA)
SOUTH CAROLINA	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA E3	25	7	.5	2.9	.3	.7	1.7	6.7	7.0	13.6	.4	(NA)	(NA)
FLORIDA E2	84	16	1.2	8.6	.8	1.6	5.1	14.8	15.8	30.6	2.1	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION	81	30	3.8	27.2	3.1	6.1	18.5	52.5	45.1	96.0	5.3	(NA)	(NA)
KENTUCKY	22	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE E1	24	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA E1	28	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION E1	167	35	3.4	26.9	2.7	5.3	19.5	50.5	49.2	99.3	2.7	(NA)	(NA)
ARKANSAS	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA E1	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA E1	32	7	.5	3.6	.4	.8	2.6	7.5	6.3	13.8	.8	(NA)	(NA)
TEXAS E1	115	23	2.2	17.9	1.7	3.2	12.4	34.3	36.8	70.7	1.6	(NA)	(NA)
WEST REGION E2	385	85	6.7	56.6	5.0	9.4	36.6	114.9	105.4	217.1	13.5	(NA)	(NA)
MOUNTAIN DIVISION E1	61	16	.9	7.4	.7	1.3	5.3	15.2	16.5	31.7	1.0	(NA)	(NA)
COLORADO	25	10	.5	4.4	.4	.8	3.2	9.4	8.7	17.4	.6	(NA)	(NA)
PACIFIC DIVISION E2	324	69	5.8	49.2	4.3	8.1	31.3	99.7	88.9	185.3	12.6	(NA)	(NA)
WASHINGTON E1	24	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON E2	25	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA E3	274	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
 E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E10--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Steel springs, except wire (SIC 3493)	Valves and pipe fittings (SIC 3494)	Wire springs (SIC 3495)	Miscellaneous fabricated wire products (SIC 3496)	Metal foil and leaf (SIC 3497)	Fabricated pipe and fittings (SIC 3498)	Fabricated metal products, n.e.c. (SIC 3499)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	81	89	88	93	79	94	89
COVERAGE RATIO ² DO	73	86	93	45	42	90	74
ESTABLISHMENTS, TOTAL NUMBER	110	779	284	1 210	65	423	2 342
WITH 1 TO 19 EMPLOYEES DO	57	316	68	799	24	221	1 690
WITH 20 TO 99 EMPLOYEES DO	30	236	150	342	25	157	518
WITH 100 EMPLOYEES OR MORE DO	23	227	66	69	16	45	134
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	8.5	93.9	23.7	33.1	5.4	17.5	61.5
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	79.9	874.9	193.2	261.0	52.4	164.7	507.6
PRODUCTION WORKERS:							
AVERAGE FOR YEAR 1,000	6.7	65.4	19.8	26.5	4.0	13.2	46.9
MARCH DO	6.5	64.7	19.3	25.7	3.9	13.1	46.4
MAY DO	6.7	64.4	19.5	26.5	3.8	13.1	46.5
AUGUST DO	6.6	65.2	19.8	26.7	3.9	13.2	47.1
NOVEMBER DO	6.9	67.1	20.6	27.2	4.2	13.6	47.7
MAN-HOURS MILLIONS	13.3	130.7	40.0	51.6	8.2	25.9	91.6
JANUARY-MARCH DO	3.2	32.7	9.7	12.4	2.0	6.3	22.6
APRIL-JUNE DO	3.4	33.1	10.1	13.1	2.0	6.5	23.1
JULY-SEPTEMBER DO	3.3	30.9	9.8	12.7	2.0	6.4	22.4
OCTOBER-DECEMBER DO	3.4	34.0	10.4	13.4	2.2	6.7	23.4
WAGES MILLION DOLLARS	56.9	544.5	144.5	177.0	33.5	112.4	335.5
COST OF MATERIALS, ETC., TOTAL DO	183.1	1 239.9	273.3	462.3	159.3	352.1	885.7
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED DO	172.7	1 066.5	249.9	410.2	146.4	302.1	772.6
COST OF REALES DO	1.7	106.5	8.4	26.9	5.3	34.8	60.7
FUELS CONSUMED DO	3.0	13.2	2.1	4.2	1.2	2.5	7.3
PURCHASED ELECTRIC ENERGY DO	1.9	19.4	3.7	6.2	2.8	3.5	13.1
CONTRACT WORK DO	3.9	34.3	9.1	14.8	3.6	9.4	32.1
VALUE OF SHIPMENTS, INCLUDING REALES DO	331.4	2 941.3	611.9	958.7	285.2	704.4	1 918.3
VALUE OF REALES DO	3.2	127.9	9.6	36.6	6.2	48.7	89.1
VALUE ADDED BY MANUFACTURE DO	149.7	1 741.9	340.7	503.8	128.0	363.1	1 037.8
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL DO	50.7	727.8	59.9	153.6	41.6	139.7	292.4
FINISHED PRODUCTS DO	10.2	265.6	16.0	57.9	16.1	55.0	99.3
WORK IN PROCESS DO	11.0	282.8	12.5	29.5	7.6	36.3	83.8
MATERIALS, SUPPLIES, FUEL, ETC. DO	29.5	179.4	31.4	66.2	18.0	48.4	109.4
END OF YEAR, TOTAL DO	57.4	775.6	66.5	158.7	44.4	157.5	299.2
FINISHED PRODUCTS DO	10.7	282.3	16.4	59.7	17.9	60.9	100.9
WORK IN PROCESS DO	11.9	306.1	14.2	35.0	7.9	41.2	88.3
MATERIALS, SUPPLIES, FUEL, ETC. DO	34.7	187.3	35.9	63.8	18.6	55.4	110.0
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	6.7	85.4	14.5	31.9	9.0	15.7	65.9
NEW PLANT AND EQUIPMENT, TOTAL DO	6.6	79.0	12.9	28.9	8.4	14.7	61.4
NEW STRUCTURES AND ADDITIONS TO PLANT DO	1.5	16.5	2.5	6.2	2.8	3.6	16.5
NEW MACHINERY AND EQUIPMENT DO	5.1	62.5	10.4	22.6	5.6	11.1	45.0
USED PLANT AND EQUIPMENT DO . . . . .	.1	6.4	1.7	2.9	.8	1.0	4.5

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3493-- STEEL SPRINGS, EXCEPT WIRE											
ESTABLISHMENTS, TOTAL	110	8.5	79.9	6.7	13.3	56.9	149.7	183.1	331.4	6.6	57.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	30	.1	.4	.1	.1	.3	.9	.9	1.8	(Z)	.3
5 TO 9 EMPLOYEES E4	11	.1	.6	.1	.1	.4	1.6	1.1	2.7	(Z)	.3
10 TO 19 EMPLOYEES E4	16	.2	2.0	.2	.4	1.3	3.7	7.4	11.5	.1	2.0
20 TO 49 EMPLOYEES E1	21	.6	5.3	.5	1.0	3.6	11.0	7.2	18.1	.7	2.0
50 TO 99 EMPLOYEES	9	.7	7.1	.5	1.1	4.7	15.2	18.9	33.2	1.3	7.1
100 TO 249 EMPLOYEES	11	1.9	19.3	1.5	3.0	13.5	33.4	35.8	69.2	2.0	13.1
250 TO 499 EMPLOYEES	8	4.8	45.2	3.9	7.6	33.0	84.0	111.8	194.8	2.5	32.5
500 TO 999 EMPLOYEES	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	30	.1	.5	.1	.1	.4	1.3	1.5	2.8	.1	.5
3494-- VALVES AND PIPE FITTINGS											
ESTABLISHMENTS, TOTAL	779	93.9	874.9	65.4	130.7	544.5	1 741.9	1 239.9	2 941.3	79.0	775.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	123	.2	2.0	.2	.3	1.2	5.9	4.6	10.3	.3	2.9
5 TO 9 EMPLOYEES E6	79	.5	4.6	.4	.7	2.7	10.6	8.8	19.6	.6	4.9
10 TO 19 EMPLOYEES E1	114	1.6	14.8	1.1	2.2	8.5	34.8	30.2	64.0	1.6	12.6
20 TO 49 EMPLOYEES	136	4.3	36.0	2.9	5.8	21.2	86.5	80.4	164.6	4.3	32.9
50 TO 99 EMPLOYEES	100	7.1	65.6	5.0	10.1	39.5	144.2	107.6	247.5	5.9	55.1
100 TO 249 EMPLOYEES	126	20.9	188.9	14.3	29.5	113.8	426.5	338.8	750.9	19.5	196.5
250 TO 499 EMPLOYEES	58	19.8	183.9	13.5	27.8	113.0	352.9	262.6	615.5	16.2	163.0
500 TO 999 EMPLOYEES	31	22.0	211.9	16.0	31.8	141.9	403.0	258.4	648.8	13.9	190.4
1,000 TO 2,499 EMPLOYEES	12	17.5	167.2	12.0	22.5	102.7	277.5	148.5	420.1	16.7	117.3
ESTABS. COVERED BY ADMIN. RECORD ¹ .	133	.5	3.8	.3	.6	2.4	10.1	7.6	17.7	.6	5.0

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3495-- WIRE SPRINGS											
ESTABLISHMENTS, TOTAL.	284	23.7	193.2	19.8	40.0	144.5	340.7	273.3	611.9	12.9	66.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES	5	(Z)	.1	(Z)	(Z)	(Z)	.1	.1	.2	(Z)	(Z)
5 TO 9 EMPLOYEES	13	.1	.8	.1	.1	.5	1.8	1.1	2.9	(Z)	.3
10 TO 19 EMPLOYEES	50	.7	6.1	.6	1.2	4.0	11.5	6.6	18.0	.7	1.3
20 TO 49 EMPLOYEES	84	2.7	19.8	2.2	4.3	14.1	37.5	31.1	68.3	1.7	7.0
50 TO 99 EMPLOYEES	66	4.6	34.6	3.9	7.8	25.8	57.6	48.3	105.8	3.4	10.3
100 TO 249 EMPLOYEES	45	6.7	53.0	5.6	11.1	39.3	91.0	79.2	170.4	2.4	18.8
250 TO 499 EMPLOYEES	15	5.1	44.2	4.2	8.6	33.2	79.4	70.0	148.9	3.3	18.0
500 TO 999 EMPLOYEES	6	3.7	34.7	3.2	6.8	27.4	61.8	36.9	97.5	1.2	10.8
3496-- MISCELLANEOUS FABRICATED WIRE PRODUCTS											
ESTABLISHMENTS, TOTAL. E1	1 210	33.1	261.0	26.5	51.6	177.0	503.8	462.3	958.7	28.9	158.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	401	.8	5.5	.8	1.3	3.9	14.3	11.7	26.0	1.0	3.5
5 TO 9 EMPLOYEES E6	222	1.5	10.9	1.2	2.3	7.3	24.0	21.0	44.9	1.7	5.7
10 TO 19 EMPLOYEES E3	176	2.4	19.0	1.9	3.7	12.5	41.1	35.7	76.4	1.8	9.0
20 TO 49 EMPLOYEES E1	240	7.5	53.1	6.2	11.8	36.5	99.2	79.5	178.8	6.0	20.0
50 TO 99 EMPLOYEES E1	102	6.9	52.8	5.5	10.6	35.1	112.5	111.5	223.5	7.0	35.9
100 TO 249 EMPLOYEES	53	7.6	60.3	6.0	12.4	40.4	119.2	103.0	220.8	7.9	38.9
250 TO 499 EMPLOYEES	12	3.6	30.9	2.7	5.1	20.6	59.8	43.1	101.0	2.4	19.2
500 TO 999 EMPLOYEES	4	2.8	28.4	2.2	4.5	20.8	33.7	56.8	87.2	1.2	26.5
ESTABS. COVERED BY ADMIN. RECORD ¹ .	512	1.9	13.3	1.7	3.0	9.4	31.7	24.9	56.5	2.2	8.0
3497-- METAL FOIL AND LEAF											
ESTABLISHMENTS, TOTAL.	65	5.4	52.4	4.0	8.2	33.5	128.0	159.3	285.2	8.4	44.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	9	(Z)	.2	(Z)	(Z)	.1	.3	.4	.7	(Z)	.1
5 TO 9 EMPLOYEES E6	6	(Z)	.6	(Z)	(Z)	.3	1.0	1.5	2.5	(Z)	.7
10 TO 19 EMPLOYEES	10	.1	1.7	.2	.4	1.2	4.4	7.2	11.4	.3	.9
20 TO 49 EMPLOYEES	15	.6	5.0	.4	.9	3.4	14.3	20.3	34.1	.9	5.6
50 TO 99 EMPLOYEES E1	9	.5	5.2	.5	.9	3.3	10.2	10.8	21.1	1.3	2.6
100 TO 249 EMPLOYEES	12	2.0	17.8	1.4	2.9	10.6	46.6	45.4	92.5	4.0	14.5
250 TO 499 EMPLOYEES	2	2.1	21.9	1.5	3.1	14.6	51.2	73.7	122.9	1.9	20.0
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	8	(Z)	.2	(Z)	(Z)	.1	.3	.4	.7	(Z)	.1
3498-- FABRICATED PIPE AND FITTINGS											
ESTABLISHMENTS, TOTAL.	423	17.5	164.7	13.2	25.9	112.4	363.1	352.1	704.4	14.7	157.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	96	.2	1.6	.2	.3	1.1	1.4	3.8	8.1	1.1	1.5
5 TO 9 EMPLOYEES E6	53	.4	3.2	.3	.6	2.3	6.9	6.4	13.4	.4	2.4
10 TO 19 EMPLOYEES E2	72	1.0	9.8	.8	1.5	6.3	19.8	19.5	40.0	.9	7.0
20 TO 49 EMPLOYEES	110	3.4	30.7	2.6	4.9	21.2	68.3	66.3	133.2	2.4	21.7
50 TO 99 EMPLOYEES	47	3.2	27.9	2.5	5.1	19.7	71.2	65.4	133.6	2.8	30.9
100 TO 249 EMPLOYEES	31	4.5	42.7	3.3	6.7	28.5	106.0	95.5	196.4	3.4	42.2
250 TO 499 EMPLOYEES	12	4.8	48.8	3.5	6.8	33.3	89.5	95.2	179.7	3.7	51.8
500 TO 999 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	104	.4	3.6	.3	.7	2.5	8.1	7.9	16.0	.4	3.4
3499-- FABRICATED METAL PRODUCTS, NEC											
ESTABLISHMENTS, TOTAL. E1	2 342	61.5	507.6	46.9	91.6	335.5	1 037.8	885.7	1 918.3	61.4	299.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	898	1.7	12.3	1.5	2.5	8.0	29.1	26.6	56.9	2.4	9.0
5 TO 9 EMPLOYEES E7	386	2.5	19.8	2.0	3.8	13.0	38.9	30.5	69.5	2.7	10.1
10 TO 19 EMPLOYEES E3	406	5.6	45.3	4.4	8.6	29.9	90.8	69.2	159.7	4.9	19.7
20 TO 49 EMPLOYEES E1	374	11.8	95.2	9.2	17.3	63.2	175.5	179.9	356.0	11.0	45.3
50 TO 99 EMPLOYEES	144	9.7	74.4	7.6	14.8	49.0	146.6	123.0	265.9	9.5	39.1
100 TO 249 EMPLOYEES	104	15.2	125.0	11.6	23.1	84.2	267.0	254.7	522.4	13.1	88.1
250 TO 499 EMPLOYEES	20	6.7	56.1	4.6	9.4	36.9	90.3	86.0	176.3	3.1	31.5
500 TO 999 EMPLOYEES	8	8.3	79.5	6.0	12.1	51.3	199.6	115.8	311.6	14.7	56.4
1,000 TO 2,499 EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD ¹ .	873	2.9	21.6	2.4	4.4	14.1	45.2	40.9	86.0	3.3	14.2

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent E3--30 to 39 percent E5--50 to 59 percent E7--70 to 79 percent E9--90 to 99 percent
E2--20 to 29 percent E4--40 to 49 percent E6--60 to 69 percent E8--80 to 89 percent E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

¹Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3493	STEEL SPRINGS, EXCEPT WIRE										
	ENTIRE INDUSTRY	110	8.5	79.9	6.7	13.3	56.9	149.7	183.1	331.4	6.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	96	6.1	55.0	4.9	9.8	41.4	95.2	104.2	199.4	5.1
34931	HOT FORMED SPRINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	44	6.3	58.7	5.0	10.2	43.2	108.1	154.4	261.8	5.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	38	5.2	46.9	4.2	8.4	36.0	79.6	90.3	170.0	4.5
34932	COLD FORMED SPRINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	10	1.5	15.5	1.1	2.1	10.0	30.1	16.7	46.1	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3494	VALVES AND PIPE FITTINGS										
	ENTIRE INDUSTRY	779	93.9	874.9	65.4	130.7	544.5	1 741.9	1 239.9	2 941.3	79.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	611	59.8	561.5	41.3	82.7	346.3	1 151.1	839.2	1 955.7	51.1
34941	AUTOMATIC REGULATING AND CONTROL VALVES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	117	17.9	168.7	11.4	22.1	90.6	331.0	198.8	527.3	16.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	82	10.1	96.8	6.5	12.5	52.3	299.2	114.9	320.0	10.1
34942	VALVES FOR POWER TRANSFER (PNEUMATIC, HYDRAULIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	63	8.6	92.7	5.6	11.7	52.3	173.6	88.2	255.2	6.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	43	5.1	57.6	3.2	6.9	31.9	109.2	49.3	152.1	4.0
34943	OTH. METAL VALVES, PIPING SYST., EXC. PLUMB, HEAT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	155	33.8	316.2	23.5	46.6	200.5	610.3	423.3	1 023.1	26.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	115	24.9	232.5	17.3	34.1	147.8	465.2	323.7	772.3	18.6
34944	PLUMB., HEAT. VALVES, ETC., EXC. BRASS GOODS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	31	3.8	30.6	2.9	5.8	20.8	64.1	55.2	116.0	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	19	1.7	12.3	1.2	2.4	7.5	25.5	28.0	52.0	.5
34945	METAL FITTINGS, FLANGES, UNIONS FOR PIPING SYSTEM (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	118	21.5	190.5	16.2	32.1	131.8	387.0	328.6	695.4	19.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	84	12.4	111.3	9.1	18.4	74.1	224.2	210.9	413.8	11.8
34946	FITTINGS, ASSEMBLIES FOR TUBING, EXC. BRASS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	46	4.5	43.9	3.2	7.2	28.6	107.8	96.6	200.0	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	38	3.1	30.0	2.3	5.1	19.6	79.0	79.0	155.6	2.1
3495	WIRE SPRINGS										
	ENTIRE INDUSTRY	284	23.7	193.2	19.8	40.0	144.5	340.7	273.3	611.9	12.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	242	18.1	144.5	15.4	30.9	109.8	257.1	211.9	467.8	10.7
34952	PRECISION MECHANICAL SPRINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	174	11.6	101.4	9.4	19.8	73.7	175.4	122.6	297.0	6.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	126	6.5	54.3	5.3	11.2	39.5	92.0	67.9	160.1	3.9
34953	OTHER WIRE SPRINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	107	11.9	91.3	10.3	20.1	70.4	164.1	150.3	313.3	6.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	94	10.4	79.8	9.1	17.8	62.9	144.5	128.7	272.2	5.8
3496	MISC. FABRICATED WIRE PRODUCTS										
	ENTIRE INDUSTRY	1 210	33.1	261.0	26.5	51.6	177.0	503.8	462.3	958.7	28.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	1 166	28.0	216.5	22.3	43.3	145.2	451.3	379.8	816.6	26.4
34961	NONINSUL. FERROUS WIRE ROPE, ETC. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	55	2.8	22.7	2.0	4.0	14.1	44.2	52.6	98.0	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	42	2.1	16.2	1.5	2.8	9.4	31.6	41.2	74.0	1.2
34964	FERROUS WIRE CLOTH, WOVEN WIRE (NOT WIREDRAWING) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	48	2.7	24.4	2.0	3.8	15.4	43.4	33.1	75.6	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	36	1.8	15.3	1.3	2.5	9.9	31.1	22.7	53.8	2.2
34965	NONFERROUS WIRE CLOTH, WOVEN WIRE (NOT WIREDRAWING) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	27	1.6	14.0	1.3	2.7	9.5	29.5	25.3	53.8	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	20	1.1	9.8	.9	1.9	7.2	24.0	15.5	38.7	.8
34966	FENCING, FENCE GATES (NOT WIREDRAWING) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	33	2.3	21.2	1.8	3.4	14.3	26.3	59.1	83.5	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	29	1.2	9.6	.9	1.8	5.7	20.1	26.1	46.1	.5
34969	OTHER FAB. WIRE PRODS. (NOT WIREDRAWING) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	296	16.3	127.3	13.2	26.1	88.5	256.5	206.2	458.1	14.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	257	13.2	102.0	10.6	20.7	70.2	202.3	164.0	362.5	11.5
3497	METAL FOIL AND LEAF										
	ENTIRE INDUSTRY	65	5.4	52.4	4.0	8.2	33.5	128.0	159.3	285.2	8.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	51	2.9	28.0	2.1	4.3	17.4	75.3	93.3	167.7	4.8
34971	CONVERTED UNMOUNTED ALUM. FOIL PACKAGING PROD. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	12	1.4	12.5	1.1	2.2	9.1	35.9	65.4	99.8	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34972	LAMINATED ALUM. FOIL ROLL, SHEET, FLEXIBLE PACK'G (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	21	2.4	24.1	1.8	3.7	16.0	48.2	63.5	110.7	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	10	.4	3.7	.3	.6	2.7	5.9	13.9	19.8	.2
34973	CONVERTED ALUM. FOIL FOR NONPACKAGING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT).	15	1.3	12.4	.8	1.8	6.6	36.2	24.5	61.1	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3498	FABRICATED PIPE AND FITTINGS										
	ENTIRE INDUSTRY	423	17.5	164.7	13.2	25.9	112.4	363.1	352.1	704.4	14.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION.	395	15.2	143.1	11.5	22.0	97.6	310.0	317.6	620.2	12.4

Footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3499	FABRICATED METAL PRODUCTS, NEC										
	ENTIRE INDUSTRY	2 342	61.5	507.6	46.9	91.6	335.5	1 037.8	885.7	1 918.3	61.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	2 151	48.7	394.6	37.8	73.1	266.6	826.2	710.4	1 531.8	52.1
34991	SAFES AND VAULTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	43	5.8	55.0	3.9	7.7	34.6	144.1	78.3	225.6	3.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	40	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34992	COLLAPSIBLE TUBES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	19	2.6	18.3	2.3	4.6	13.8	29.0	17.0	45.9	1.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34993	FLAT METAL STRAPPING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	15	1.5	16.7	1.0	2.2	10.6	63.7	84.5	150.3	3.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34994	ALL OTHER FAB. METAL PRODS. (EXC. FLAT METAL) NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)	727	38.0	312.8	29.2	57.6	208.6	588.5	534.4	1 114.5	29.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	612	29.0	234.7	22.6	44.1	158.7	449.8	407.8	850.9	23.1

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3493	Steel springs, except wire.....1972..	331.4	264.8	60.6	6.0	81	361.8	264.8	97.0	73
	.....1967..	192.4	165.0	22.0	5.4	88	264.0	165.0	99.0	63
3494	Valves and pipe fittings.....1972..	2,941.3	2,485.1	285.3	170.9	90	2,891.6	2,485.1	406.5	86
	.....1967..	2,274.5	1,845.5	296.5	132.5	86	2,091.9	1,845.5	246.4	88
3495	Wire springs.....1972..	611.9	528.4	72.4	11.1	88	566.1	528.4	37.7	93
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3496	Miscellaneous fabricated wire products....1972..	958.7	836.4	62.7	59.6	93	1,862.5	836.4	1,026.1	145
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3497	Metal foil and leaf.....1972..	352.5	267.9	65.4	19.2	80	511.8	267.9	243.9	52
	.....1967..	265.5	215.1	37.7	12.7	85	385.6	215.1	170.5	56
3498	Fabricated pipe and fittings.....1972..	704.4	605.2	35.4	63.8	94	670.5	605.2	65.3	90
	.....1967..	508.1	440.0	22.8	45.3	95	486.3	440.0	46.3	90
3499	Fabricated metal products, n.e.c.....1972..	1,918.3	1,570.5	191.2	156.6	89	2,131.8	1,570.5	561.3	74
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

¹Included in this industry are selected fabricated wire products (see footnote 1, table 5C) which are also primary to industry 3315, Steel Wire and Related Products. A 1972 coverage ratio computed on the basis of including both industries to which these products are primary would total 77 percent: 45 percent by industry 3496 and 32 percent by industry 3315. The remaining 23 percent was shipped by establishments in other industries, including industry 3312, Blast Furnaces and Steel Mills, and industry 3357, Nonferrous Wire Drawing and Insulating.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Steel springs, except wire (SIC 3493)	Valves and pipe fittings (SIC 3494)	Wire springs (SIC 3495)	Miscellaneous fabricated wire products (SIC 3496)	Metal foil and leaf (SIC 3497)	Fabricated pipe and fittings (SIC 3498)	Fabricated metal products, n.e.c. (SIC 3499)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	331.4	2,941.3	611.9	958.7	352.5	704.4	1,918.3	(X)
3493-	Steel springs, except wire.....	361.8	264.8	-	35.3	(under 2)	-	-	-	(50-100)
34931	Hot formed springs.....	279.1	213.8	-	(10-20)	-	-	-	-	(50-100)
34932	Cold formed springs.....	56.9	28.6	-	24.5	0.4	-	-	-	3.4
34930	Steel springs, except wire, n.s.k.....	25.8	22.4	-	(under 2)	(under 2)	-	-	-	2.7
3494-	Valves and pipe fittings.....	2,891.6	-	2,485.1	-	-	-	10.8	1.0	394.7
34941	Automatic regulating and control valves.....	513.3	-	421.2	-	-	-	-	-	92.1
34942	Valves for power transfer (pneumatic and hydraulic)	306.8	-	195.8	-	-	-	-	-	111.0
34943	Other metal valves for piping systems and equipment (except plumbing and heating valves).....	1,036.9	-	942.1	-	-	-	(2-5)	(under 2)	90.8
34944	Plumbing and heating, valves and specialties (except plumbers' brass goods).....	139.3	-	110.3	-	-	-	(under 2)	(under 2)	28.8
34945	Metal fitting, flanges, and unions for piping systems.....	602.2	-	539.7	-	-	-	7.4	-	55.1
34946	Fittings and assemblies for tubing and hose (except plumbers' brass goods).....	193.3	-	181.8	-	-	-	(under 2)	-	(10-20)
34940	Valves and pipe fittings, n.s.k.....	99.8	-	94.2	-	-	-	(under 2)	-	(5-10)
3495-	Wire springs.....	566.1	19.6	-	528.4	4.3	-	-	(under 2)	(10-20)
34952	Precision mechanical springs.....	250.5	(10-20)	-	224.9	(2-5)	-	-	(under 2)	(5-10)
34953	Other wire springs.....	312.0	(2-5)	-	299.9	(under 2)	-	-	-	6.8
34950	Wire springs, n.s.k.....	3.6	-	-	3.6	-	-	-	-	-
3496-	Miscellaneous fabricated wire products.....	1,862.5	(2-5)	-	9.6	836.4	-	-	(2-5)	999.8
33151	Noninsulated ferrous wire rope, cable, and strand, made in wiredrawing plants.....	366.6	(under 2)	-	3.8	85.5	-	-	(under 2)	1275.7
34961	Noninsulated ferrous wire rope, cable, etc., not produced by wiredrawers.....	128.9	-	-	-	69.1	-	-	-	159.8
33157	Ferrous wire cloth and other woven wire products, made in wiredrawing plants.....	83.7	-	-	-	49.2	-	-	-	134.5
34964	Ferrous wire cloth and other ferrous woven wire products, not produced by wiredrawers.....	245.6	(under 2)	-	-	56.4	-	-	(under 2)	1188.9
33575	Nonferrous wire cloth and other woven wire products, made in nonferrous wiredrawing plants..	847.5	-	-	3.3	399.2	-	-	4.1	1440.9
34965	Nonferrous wire cloth and other woven wire products, not made by wiredrawers.....	190.2	(under 2)	-	2.5	177.0	-	-	(under 2)	10.0
33156	Fencing and fence gates, made in wiredrawing plants	511.8	-	-	-	-	267.9	-	-	243.9
34966	Fencing and fence gates, not produced by wire-drawers.....	197.3	-	-	-	-	126.7	-	-	70.6
33159	Other fabricated ferrous wire products, except springs, made in wiredrawing plants.....	229.3	-	-	-	-	70.6	-	-	158.7
34969	Other fabricated wire products, not produced by wiredrawing.....	67.7	-	-	-	-	56.1	-	-	11.6
34960	Miscellaneous fabricated wire products, n.s.k.....	17.5	-	-	-	-	14.5	-	-	3.0
3497-	Metal foil and leaf.....	670.5	(2-5)	12.6	-	-	-	605.2	18.0	(20-50)
34971	Converted unmounted aluminum foil packaging products (not laminated to other material).....	2,131.8	-	5.1	(2-5)	(2-5)	-	(10-20)	1,570.5	537.5
34972	Laminated aluminum foil rolls and sheets for flexible packaging uses.....	146.2	-	-	-	-	-	-	146.2	-
34973	Converted aluminum foil for nonpackaging applications and foil and leaf.....	49.1	-	-	-	-	-	-	(20-50)	(5-10)
34970	Metal foil and leaf, n.s.k.....	167.8	-	-	-	-	-	-	(100-200)	(50-100)
34994	All other fabricated metal products (except flat metal strapping), n.e.c.....	1,390.5	-	3.9	(2-5)	(2-5)	-	11.3	939.6	428.8
34990	Fabricated metal products, n.e.c., n.s.k.....	378.2	-	1.2	-	(under 2)	-	(under 2)	337.1	39.5
Other product shipments by 4-digit product group:										
2499-	Wood products, n.e.c.....	(X)	-	-	-	-	-	-	2.2	(X)
2514-	Metal household furniture.....	(X)	-	-	(2-5)	-	-	-	(10-20)	(X)
2522-	Metal office furniture.....	(X)	-	-	-	-	-	-	(20-50)	(X)
2542-	Metal partitions and fixtures.....	(X)	-	-	-	-	-	-	3.9	(X)
2641-	Paper coating and glazing.....	(X)	-	-	-	-	10.9	-	-	(X)
2643-	Bags, except textile bags.....	(X)	-	-	-	-	(5-10)	-	-	(X)
2649-	Converted paper products, n.e.c.....	(X)	-	-	-	-	(5-10)	-	-	(X)
2754-	Commercial printing, gravure.....	(X)	-	-	-	-	(10-20)	-	-	(X)
3079-	Miscellaneous plastics products.....	(X)	-	-	-	3.1	11.6	-	6.1	(X)
3231-	Products of purchased glass.....	(X)	-	-	-	-	-	-	5.7	(X)
3293-	Gaskets, packing and sealing novices.....	(X)	(over 2)	-	-	-	-	-	-	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Steel springs, except wire (SIC 3493)	Valves and pipe fittings (SIC 3494)	Wire springs (SIC 3495)	Miscellaneous fabricated wire products (SIC 3496)	Metal foil and leaf (SIC 3497)	Fabricated pipe and fittings (SIC 3498)	Fabricated metal products, n.e.c. (SIC 3499)	Other industries
Shipments and miscellaneous receipts--Continued										
Other product shipments by 4-digit product group--Con.										
3312-	Blast furnaces and steel mills.....	(X)	-	-	-	(over 2)	-	-	(over 2)	(X)
3315-	Steel wire and related products.....	(X)	-	-	-	(over 2)	-	-	(over 2)	(X)
3316-	Cold finishing of steel shapes.....	(X)	-	-	-	-	-	-	(over 2)	(X)
3317-	Steel pipe and tubes.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3321-	Gray iron foundries.....	(X)	-	6.0	-	-	-	-	-	(X)
3322-	Malleable iron foundries.....	(X)	-	(2-5)	-	-	-	-	(under 2)	(X)
3341-	Secondary nonferrous metals.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3353-	Aluminum sheet plate and foil.....	(X)	-	-	-	-	(over 2)	-	-	(X)
3354-	Aluminum extruded products.....	(X)	-	(over 2)	-	-	-	-	(over 2)	(X)
3362-	Brass, bronze, and copper foundries.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3423-	Hand and edge tools, n.e.c.....	(X)	-	(5-10)	-	-	-	-	(2-5)	(X)
3429-	Hardware, n.e.c.....	(X)	-	4.6	(2-5)	-	-	-	2.7	(X)
3432-	Plumbing fittings and brass goods.....	(X)	-	11.4	-	-	-	-	-	(X)
3441-	Fabricated structural metal.....	(X)	-	-	-	-	-	-	(5-10)	(X)
3443-	Fabricated platework (boiler shops).....	(X)	-	5.1	-	-	-	-	2.8	(X)
3444-	Sheet metalwork.....	(X)	-	-	-	-	-	-	2.9	(X)
3451-	Screw machine products.....	(X)	-	(5-10)	-	-	-	-	-	(X)
3452-	Bolts, nuts, rivets, and washers.....	(X)	-	-	-	-	-	-	(2-5)	(X)
3462-	Iron and steel forgings.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3463-	Nonferrous forgings.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3469-	Metal stampings, n.e.c.....	(X)	-	(2-5)	5.3	13.2	-	-	12.2	(X)
3496-	Miscellaneous fabricated wire products.....	(X)	-	-	-	-	-	-	4.6	(X)
3498-	Fabricated pipe and fittings.....	(X)	-	-	-	-	-	-	18.0	(X)
3499-	Fabricated metal products, n.e.c.....	(X)	-	-	-	-	(under 2)	-	-	(X)
3524-	Lawn and garden equipment.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3531-	Construction machinery.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3532-	Mining machinery.....	(X)	-	-	-	(over 2)	-	-	-	(X)
3533-	Oilfield machinery.....	(X)	-	13.5	-	-	-	-	-	(X)
3537-	Industrial trucks and tractors.....	(X)	-	-	-	-	-	-	2.8	(X)
3546-	Power-driven handtools.....	(X)	-	-	-	(over 2)	-	-	-	(X)
3559-	Special industry machinery, n.e.c.....	(X)	-	2.9	-	-	-	-	(2-5)	(X)
3561-	Pumps and pumping equipment.....	(X)	-	27.3	-	-	-	-	-	(X)
3566-	Speed changers, drives, and gears.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3567-	Industrial furnaces and ovens.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3569-	General industrial machinery, n.e.c.....	(X)	-	17.2	-	-	-	-	5.8	(X)
3585-	Refrigeration and heating equipment.....	(X)	-	12.4	-	-	-	-	-	(X)
3586-	Measuring and dispensing pumps.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3589-	Service industry machinery, n.e.c.....	(X)	-	-	-	-	-	-	(2-5)	(X)
3592-	Carburetors, pistons, rings, valves.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3599-	Machinery, except electrical, n.e.c.....	(X)	-	10.2	-	-	-	-	2.9	(X)
3622-	Industrial controls.....	(X)	-	(10-20)	-	-	-	-	-	(X)
3623-	Welding apparatus, electric.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3634-	Electric housewares and fans.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3644-	Noncurrent-carrying wiring devices.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3648-	Lighting equipment, n.e.c.....	(X)	-	-	-	-	-	-	(over 2)	(X)
3662-	Radio and TV communication equipment.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3711-	Motor vehicles and car bodies.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3714-	Motor vehicle parts and accessories.....	(X)	(5-10)	-	(over 2)	-	-	-	-	(X)
3724-	Aircraft engines and engine parts.....	(X)	-	10.4	-	-	-	-	-	(X)
3743-	Railroad equipment.....	(X)	-	(2-5)	-	-	-	-	(2-5)	(X)
3822-	Environmental controls.....	(X)	-	14.6	-	-	-	-	-	(X)
3823-	Process control instruments.....	(X)	-	(10-20)	-	-	-	-	-	(X)
3824-	Fluid meters and counting devices.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3829-	Measuring and controlling devices, n.e.c.....	(X)	-	4.1	-	-	-	(over 2)	-	(X)
3841-	Surgical and medical instruments.....	(X)	-	(over 2)	-	-	-	-	-	(X)
Miscellaneous receipts.....										
93000	Commission receipts.....	(X)	6.0	170.9	11.1	59.6	19.2	63.8	156.6	(X)
99989	Resales.....	(X)	1.8	12.6	.4	4.4	4.7	11.1	27.4	(X)
99980	Receipts for repair work.....	(X)	(under 2)	8.9	-	-	-	(under 2)	2.0	(X)
99980	Sales of scrap and refuse.....	(X)	.4	16.3	.7	2.8	(2-5)	.8	3.7	(X)
99980	Other miscellaneous receipts.....	(X)	(under 2)	5.2	.4	15.8	(under 2)	(under 2)	34.4	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries					
Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued							
3493-	3462 Iron and steel forgings.....	(5-10)	3494-	3041 Rubber and plastics hose and belting.....	(2-5)					
	3469 Metal stampings, n.e.c.....	4.1		3272 Concrete products, n.e.c.....	(2-5)					
	3519 Internal combustion engines, n.e.c.....	(2-5)		3312 Blast furnaces and steel mills.....	13.6					
	3711 Motor vehicles and car bodies.....	(10-20)		3321 Gray iron foundries.....	9.2					
	3714 Motor vehicle parts and accessories.....	31.8		3351 Copper rolling and drawing.....	(2-5)					

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products--Continued			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3494-	3429 Hardware, n.e.c.....	(10-20)	3497-	2771 Greeting card publishing.....	8.5
	3432 Plumbing fitting and brass goods.....	15.8		3079 Miscellaneous plastics products.....	4.1
	3433 Heating equipment, except electric.....	8.5		3353 Aluminum sheet, plate, and foil.....	169.1
	3443 Fabricated platework (boiler shops).....	10.8		3466 Crowns and closures.....	(over 2)
	3444 Sheet metalwork.....	(2-5)		3483 Ammunition, except for small arms, n.e.c.....	(2-5)
	3462 Iron and steel forgings.....	25.6			
	3511 Turbines and turbine generator sets.....	(over 2)	3498-	3079 Miscellaneous plastics products.....	(5-10)
	3533 Oilfield machinery.....	43.7		3432 Plumbing fittings, and brass goods.....	(2-5)
	3542 Machine tools, metal forming types.....	2.4		3523 Farm machinery and equipment.....	(5-10)
	3559 Special industry machinery, n.e.c.....	12.5		3533 Oilfield machinery.....	(2-5)
	3561 Pumps and pumping equipment.....	92.9		3561 Pumps and pumping equipment.....	(2-5)
	3569 General industrial machinery, n.e.c.....	18.2		3621 Motors and generators.....	(2-5)
	3585 Refrigeration and heating equipment.....	14.0			
	3589 Service industry machinery, n.e.c.....	(2-5)	3499-	2431 Millwork.....	(5-10)
	3599 Machinery, except electrical, n.e.c.....	2.9		2499 Wood products, n.e.c.....	5.3
	3613 Switchgear and switchboard apparatus.....	11.0		2542 Metal partitions and fixtures.....	14.6
	3644 Noncurrent-carrying wiring devices.....	(2-5)		2599 Furniture and fixtures, n.e.c.....	(2-5)
	3714 Motor vehicle parts and accessories.....	8.1		3079 Miscellaneous plastics products.....	9.6
	3731 Ship building and repairing.....	(2-5)		3312 Blast furnaces and steel mills.....	107.8
	3822 Environmental controls.....	(2-5)		3325 Steel foundries, n.e.c.....	(10-20)
	3823 Process control instruments.....	19.7		3351 Copper rolling and drawing.....	(5-10)
	3824 Fluid meters and counting devices.....	9.5		3357 Nonferrous wiredrawing and insulating.....	4.2
	3829 Measuring and controlling devices, n.e.c.....	2.3		3411 Metal cans.....	7.9
3495-	3429 Hardware, n.e.c.....	(2-5)		3423 Hand and edge tools, n.e.c.....	5.5
	3469 Metal stampings, n.e.c.....	2.4		3429 Hardware, n.e.c.....	3.8
	3523 Farm machinery and equipment.....	(2-5)		3433 Heating equipment, except electric.....	3.3
	3621 Motors and operators.....	(2-5)		3443 Fabricated platework (boiler shops).....	5.2
3496-	3322 Malleable iron foundries.....	(2-5)		3444 Sheet metalwork.....	(2-5)
	3356 Nonferrous rolling and drawing, n.e.c.....	(2-5)		3446 Architectural metalwork.....	3.1
	3429 Hardware, n.e.c.....	2.6		3452 Bolts, nuts, rivets, and washers.....	3.8
	3441 Fabricated structural metal.....	2.3		3465 Automotive stampings.....	3.8
	3449 Miscellaneous metalwork.....	10.4		3469 Metal stampings, n.e.c.....	19.4
	3452 Bolts, nuts, rivets, and washers.....	2.1			
	3469 Metal stampings, n.e.c.....	3.3	3479	3479 Metal coating and allied services.....	(10-20)
	3483 Ammunition, except for small arms, n.e.c.....	(2-5)		3483 Ammunition, except for small arms, n.e.c.....	(2-5)
	3535 Conveyors and conveying equipment.....	2.6		3523 Farm machinery and equipment.....	6.8
	3552 Textile machinery.....	(2-5)		3545 Machine tool accessories.....	5.2
	3554 Paper industries machinery.....	(2-5)		3559 Special industry machinery, n.e.c.....	(100-200)
	3579 Office machines, n.e.c.....	9.0		3562 Ball and roller bearings.....	(2-5)
	3589 Service industry machinery, n.e.c.....	2.1		3569 General industrial machinery, n.e.c.....	(5-10)
	3623 Welding apparatus, electric.....	(5-10)		3581 Automatic merchandising machines.....	(2-5)
	3714 Motor vehicle parts and accessories.....	(2-5)			
3497-	2641 Paper coating and glazing.....	36.6		3612 Transformers.....	3.3
	2643 Bags, except textile bags.....	2.7		3622 Industrial controls.....	37.0
	2649 Converted paper products, n.e.c.....	20.7		3634 Electric housewares and fans.....	10.0
	2751 Commercial printing, letter press.....	18.6		3644 Noncurrent-carrying wiring devices.....	3.3
	2754 Commercial printing, gravure.....	20.3		3661 Telephone and telegraph apparatus.....	(2-5)
				3714 Motor vehicle parts and accessories.....	7.1
				3823 Process control instruments.....	(2-5)
				3914 Silverware and plated ware.....	(2-5)
				3949 Sporting and athletic goods, n.e.c.....	5.4
				3964 Needles, pins, and fasteners.....	(2-5)
				3999 Manufacturing industries, n.e.c.....	5.3

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

¹The totals for product classes 34961, 34964, 34965, 34966, and 34969 include, respectively, the totals for product classes 35151, 33157, 33575, 33156, and 33159. Shipments of these product classes totaled as follows:

Product class	Value (millions of dollars)
33151	270.2
33157	53.6
33575	33.9
33156	172.1
33159	390.0

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3493- --	STEEL SPRINGS, EXCEPT WIRE, TOTAL.....		(X)	361.8	(X)	264.0
24931 --	Hot Formed Springs ¹		(X)	279.1	(X)	198.7
	Helical springs, hot wound:					
	Automobile coil springs:					
34931 04	Shipments for domestic replacement, including shipments to U.S. motor vehicle manufacturers for resale.....	1,000 s. tons.	² 24.3	² 15.4	8.6	3.7
34931 06	Shipments to U.S. motor vehicle manufacturers or their suppliers for use in original equipment.....	...do.....	162.0	85.3	204.9	82.7
34931 08	Shipments for export, including transfers to other divisions for export.....	...do.....	(²)	(²)	6.0	3.7
34931 15	Locomotive and railroad car.....	...do.....	36.9	16.4	52.7	19.5
34931 19	Other helical springs, hot wound.....	...do.....	4.8	2.5	10.6	4.6
	Leaf springs:					
	Automotive (auto, truck, bus, trailer, etc.):					
34931 51	Shipments for domestic replacement, including shipments to U.S. motor vehicle manufacturers for resale.....	...do.....	58.1	31.0	78.1	31.6
34931 55	Shipments to U.S. motor vehicle manufacturers or their suppliers for use in original equipment.....	...do.....	268.3	110.7	118.7	41.7
34931 57	Shipments for export, including transfers to other divisions for export.....	...do.....	17.6	6.1	1.8	.8
34931 63	Leaf springs for tractors, farm equipment, locomotive and railroad cars, and other heavy equipment.....	...do.....	13.8	5.9	7.8	2.9
34931 98	Other hot formed steel springs (including torsion bar springs).....	...do.....	(NA)	5.8	14.6	7.5
34932 71	Cold formed flat springs made of sheet and strip ¹.....	...do.....	25.2	56.9	20.2	45.5
34930 00	Steel springs, except wire, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	23.0	(X)	18.3
34930 02	Steel springs, except wire, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	2.8	(X)	1.5
3494- --	VALVE AND PIPE FITTINGS, TOTAL.....		(X)	2,891.6	(X)	2,091.9
34941 --	Automatic Regulating and Control Valves.....		(X)	513.3	(X)	327.9
	Engineered specification valves, designed to perform a precise degree of continuous modulation of controlled variables as the final element of a sophisticated instrumentation loop (commonly referred to as control valves and including certain globe, butterfly, ball, diaphragm and similar body types):					
34941 20	As reported in the census of manufactures.....		(X)	219.8	(X)	103.2
	As reported in Current Industrial Reports series MA-38B, "Selected Instruments and Related Products".....	1,000 units...	(NA)	244.1	(NA)	(NA)
34941 05	Pneumatic actuated.....	...do.....	(NA)	127.0	(NA)	(NA)
34941 10	Electric actuated.....	...do.....	(NA)	27.0	(NA)	(NA)
34941 15	Electro-hydraulic actuated.....	...do.....	(NA)	10.2	(NA)	(NA)
34941 19	Other.....	...do.....	(NA)	79.9	(NA)	(NA)
	Regulator valves equipped with self-generating power actuators acting in response and in proportion to a change in value of the controlled variable, such as temperature, pressure, flow, level, etc.:					
34941 40	As reported in the census of manufactures.....		(X)	167.7	(X)	³ 219.4
	As reported in Current Industrial Reports series MA-38B, "Selected Instruments and Related Products".....	1,000 units...	(NA)	164.2	(NA)	158.0
34941 25	Remote-sensing direct actuated temperature regulators.....	...do.....	(NA)	14.9	(NA)	(NA)
34941 30	Self-contained direct actuated pressure regulators (except instrument type and safety relief valves).....	...do.....	(NA)	48.2	(NA)	(NA)
34941 35	Pilot (internal and external) actuated pressure regulators..	...do.....	(NA)	13.3	(NA)	(NA)
34941 41	Self-contained direct acting precision and instrument type pneumatic (air and gas) pressure regulators.....	...do.....	(NA)	14.4	(NA)	(NA)
34941 45	Flow regulators for gas, vapors, or liquids.....	...do.....	(NA)	54.5	(NA)	(NA)
34941 48	Other regulator valves.....	...do.....	(NA)	18.9	(NA)	(NA)
	Solenoid valves of the type actuated by the movement of a plunger or armature due to the magnetic field created by electrically energizing a solenoid coil (excluding torque motor rotary type actuated valves and servovalves):					
34941 60	As reported in the census of manufactures.....		(X)	105.5	(¹)	(¹)
	As reported in Current Industrial Reports series MA-38B, "Selected Instruments and Related Products".....	1,000 units...	(NA)	129.5	11.4	61.1
34941 55	Two-way.....	...do.....	(NA)	69.7	(NA)	(NA)
34941 57	Three-way.....	...do.....	(NA)	10.5	(NA)	(NA)
34941 65	Fluid power solenoid-hydraulic.....	...do.....	(NA)	5.9	(NA)	(NA)
34941 70	Fluid power solenoid-pneumatic.....	...do.....	(NA)	14.3	(NA)	(NA)
34941 75	Other solenoid valves.....	...do.....	(NA)	29.1	(NA)	(NA)
34941 00	Automatic regulating and control valves, n.s.k.....		(X)	17.0	(X)	5.3

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3494- --	VALVES AND PIPE FITTINGS--Continued					
34942 --	Valves for Power Transfer (Pneumatic and Hydraulic).....	(X)		306.8	(X)	229.5
	Hydraulic valves, all pressures:					
34942 31	Directional control (except solenoid).....	1,000 units...	1,685.2	84.0	3,799.4	101.1
34942 33	Pressure control.....	...do.....	1,043.1	33.6	684.2	19.5
34942 35	Volume flow control.....	...do.....	(NA)	27.1	566.4	10.3
34942 37	Servo valves.....	...do.....			101.7	24.6
34942 41	Combination.....	...do.....	248.0	54.1		
34942 43	Fluidic, including amplifiers, interface devices and transducers.....	...do.....	7.6	.3	166.4	6.4
	Pneumatic valves, all pressures:					
34942 61	Directional control (except solenoid).....	...do.....	1,777.8	33.8	1,154.5	33.1
34942 63	Pressure, including filter-lubricator-regulator control.....	...do.....	(NA)	25.0	(NA)	7.5
34942 65	Volume flow control.....	...do.....	510.1	3.7	942.6	3.5
34942 67	Combination.....	...do.....	8.4	2.6	(NA)	10.2
34942 98	All other power transfer valves (including fluidic pneumatic)...	...do.....	(NA)	25.3		
34942 00	Valves for power transfer, n.s.k.....	...do.....	(X)	17.3	(X)	13.3
34943 --	Other Metal Valves for Piping Systems and Equipment (Except Plumbing and Heating Valves).....	(X)		1,036.9	(X)	793.6
	Gates, globes, angles, straightway (Y-type) checks, stop and check, cross, 3 and 4 way, etc., including remote-control operators:					
	Iron body, including ductile or nodular, all pressures:					
34943 13	Municipal type (IBBM).....	1,000 s. tons.	(NA)	65.3	(NA)	57.8
34943 15	Fire hydrants.....	...do.....	(NA)	33.1	(NA)	21.5
34943 17	All other iron valves.....	...do.....	(NA)	78.7	(NA)	61.1
	Steel, all pressures:					
34943 21	Cast and forged carbon steel.....	...do.....	(NA)	157.5	42.3	110.0
34943 23	Cast and forged alloy steel (all types, including stainless)...	...do.....	(NA)	83.5	(NA)	72.1
34943 25	Brass and bronze (125 lb. w.s.p. and over).....	...do.....	(NA)	128.6	(NA)	111.0
34943 31	Ball valves, including operators, all metals, pressures, and types (excluding automatic valves).....	...do.....	(NA)	93.7	(NA)	77.3
34943 33	Butterfly valves, including operators, all metals, pressures, and types (excluding automatic valves).....	...do.....	(NA)	97.5	(NA)	47.4
34943 35	Plug valves, including operators, all metals, pressures, and types (such as lubricated, nonlubricated, cylindrical, eccentric, sleeve lines).....	...do.....	(NA)	81.2	(NA)	74.4
34943 37	Cocks and stops, all metals, pressures, and types.....	...do.....	(NA)	12.7	(NA)	10.2
34943 39	Diaphragm and pinch valves, including operators, all metals, pressures and types (excluding automatic valves).....	...do.....	(NA)	20.0	(NA)	10.6
34943 41	All other engineered specification valves, 125 w.s.p. and over, including operators, n.e.c., (excluding automatic valves).....	...do.....	(NA)	22.2	(NA)	6.6
34943 43	All other general purpose valves, including operators, except plumbing and heating valves, n.e.c.....	...do.....	(NA)	42.1	(NA)	28.2
	Pop safety valves and relief valves (over 15 lb. w.s.p.):					
34943 51	Iron.....	...do.....	(NA)	2.9	.7	2.9
34943 53	Steel (carbon and alloy).....	...do.....	(NA)	32.9	(NA)	24.6
34943 55	Brass and bronze.....	...do.....	(NA)	11.9	(NA)	7.8
34943 57	Compressed gas cylinder valves.....	1,000 units...	(NA)	12.1	(NA)	8.7
34943 61	Steam traps (over 15 lb. w.s.p.).....	Million units.	.5	9.6	1.1	12.2
34943 98	Other metal valves and specialties.....	...do.....	(X)	32.5	(X)	42.0
34943 00	Other metal valves for piping systems and equipment, n.s.k.....	...do.....	(X)	18.9	(X)	7.2
34944 --	Plumbing and Heating Valves and Specialties (Except Plumbers' Brass Goods).....	(X)		139.3	(X)	101.2
34944 11	Gates, globes, angles, straightway (Y-type) checks, stop and check, cross, 3- and 4-way drain, etc., brass and bronze (under 125 lb. w.s.p.).....	1,000 s. tons.	21.1	51.3	19.7	43.0
34944 19	Other metal plumbing and heating valves and specialties, including steam traps, pop safety valves and relief valves (15 lb. w.s.p. and under).....	...do.....	18.6	75.1	14.1	51.1
34944 00	Plumbing and heating valves, and specialties, n.s.k.....	...do.....	(X)	12.9	(X)	7.1
34945 --	Metal Fittings, Flanges, and Unions for Piping Systems.....	(X)		602.2	(X)	484.7
34945 11	Gray iron fittings, flanges, and unions (not for cast iron pipe). Malleable iron:	1,000 s. tons.	50.2	21.8	86.0	39.9
34945 13	Fittings and flanges.....	...do.....	80.3	69.6	89.8	70.1
34945 15	Unions and union fittings.....	...do.....	14.7	22.6	15.4	17.2

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3494- --	VALVES AND PIPE FITTINGS--Continued					
34945 --	Metal Fittings, Flanges, and Unions For Piping Systems--Continued					
	Copper, brass, or bronze (used for IPS, DMV, and K, L, M copper tubing sizes):					
34945 18	Cast bronze or bronze fittings, flanges, and unions.....	Million lb....	28.4	35.1	77.8	87.1
34945 19	Wrought copper and wrought copper alloy fittings, flanges, and unions.....	...do.....	52.3	76.1		
34945 21	Cast carbon and alloy steel fittings, flanges, and unions.....	1,000 s. tons.	4.2	10.4		
	Forged carbon and alloy steel:					
34945 23	Fittings and unions.....	...do.....	38.2	76.5	59.9	86.2
34945 25	Flanges (all types).....	...do.....	57.8	45.0	64.9	51.4
34945 27	Fittings, butt-welding type.....	...do.....	64.6	75.5	38.1	39.3
34945 31	Pipe hangers and supports (not including metal framing).....	.....	(X)	46.4	(X)	27.5
34945 98	All other metal fittings and unions for piping systems, including metal framing and fittings for mechanical and electrical supports.....	1,000 s. tons.	(NA)	88.0	(NA)	42.5
34945 00	Metal fittings, flanges, and unions for piping systems, n.s.k..	.....	(X)	35.2	(X)	12.1
34946 --	Fittings and Assemblies for Tubing and Hose (Except Plumbers' Brass Goods) ¹.....	.....	(X)	193.3	(X)	55.1
	Fittings and assemblies for tubing used in fluid and power transfer systems (tubing normally measured by outside diameter dimension):					
	Flared type:					
34946 11	Brass and bronze (SAE 45° and 37°).....	Million lb....	11.0	15.5	6.4	8.0
34946 13	Carbon steel (JIC 37°).....	...do.....	15.5	24.0	4.2	9.4
34946 15	Other, including alloy steel.....	...do.....				
	Flareless type:					
34946 21	Brass and bronze.....	...do.....	7.6	20.6	7.0	20.1
34946 23	Carbon steel.....	...do.....	4.3	6.0		
34946 25	Other, including alloy steel.....	...do.....	9.7	22.0		
34946 41	Hose end fittings and hose assemblies for hydraulic, pneumatic, and fluid transfer systems, except automotive, aircraft, household and garden hose fittings, and assemblies:					
	Low pressure hose end fittings and hose assemblies (all metals, fabric reinforced, such as SAE 100R3, 40R2, 30R2), all types.....	Million units.	(NA)	15.0	9.7	6.9
	Medium pressure hose end fittings and hose assemblies (all metals, usually single-wire reinforced, such as SAE 100R1, 100R5):					
34946 54	Reusable end fittings and assemblies with reusable end fittings.....	...do.....				
34946 56	Permanent end fittings and assemblies with permanent end fittings.....	...do.....				
	High pressure hose end fittings and hose assemblies (all metals, usually two-wire reinforced, such as SAE 100R2A, 100R2B):					
34946 62	Reusable end fittings and assemblies with reusable end fittings.....	...do.....	(NA)	74.0	16.8	8.1
34946 65	Permanent end fittings and assemblies with permanent end fittings.....	...do.....				
34946 77	All other hose end fittings and hose assemblies, including suction type, reinforced elastomeric plastics, permanent joint and very high pressure hose end fittings, and hose assemblies (all types), etc.....	.....	(X)	16.2	(X)	2.6
34946 00	Fittings and assemblies for tubing and hose, n.s.k.....	.....	(X)	80.7	(X)	94.2
34940 00	Valves and pipe fittings, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	19.1	(X)	5.7
34940 02	Valves and pipe fittings, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	566.1	(X)	465.1
3495- --	WIRE SPRINGS, TOTAL.....	.....	(X)	250.5	(X)	211.0
34952 --	Precision Mechanical Springs ¹.....	.....	(X)	115.3	80.7	115.2
	Compression type:					
34952 12	Shipments to original equipment manufacturers.....	1,000 s. tons.	79.0	12.4		
34952 14	Other shipments.....	...do.....	12.4	23.6	37.1	49.5
34952 15	Extension type.....	...do.....	40.8	55.2		
34952 17	Torsion type.....	...do.....	28.2	44.6		
34952 00	Precision mechanical springs, n.s.k.....	.....	(X)	11.8	(X)	18.2

See footnotes at end of table.

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3495- --	WIRE SPRINGS--Continued					
34953 --	Other Wire Springs ¹		(X)	312.0	(X)	254.1
34953 11	Upholstery and furniture springs (unassembled): Seat and back springs for motor vehicles.....	1,000 s. tons.	131.7	109.6	188.0	114.4
34953 13	Springs for mattresses and bedsprings, excluding complete bedsprings.....	...do.....	20.8	12.7	56.7	18.1
34953 17	Spring units for boxsprings, innerspring mattresses, and dual-purpose sleep furniture.....	...do.....	223.2	105.0	170.8	63.3
34953 18	Spring units for upholstered furniture.....	...do.....	(NA)	12.2	(NA)	13.8
34953 19	Other upholstery and furniture springs (unassembled).....	...do.....	(NA)	23.3	(NA)	11.5
34953 21	Valve springs.....	...do.....	6.3	11.2	(NA)	28.1
34953 98	Other wire springs.....	...do.....	(NA)	31.4		
34953 00	Other wire springs, n.s.k.....	...do.....	(X)	6.6	(X)	5.0
34950 00	Wire springs, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	3.6	(NA)	(NA)
			1972		1967	
			Quantity	Value, f.o.b. plant (million dollars)	Quantity	Value, f.o.b. plant (million dollars)
3496- --	MISCELLANEOUS FABRICATED WIRE PRODUCTS, TOTAL.....		(X)	1,862.5	(X)	1,368.2
33151 --	Noninsulated Ferrous Wire Rope, Cable, and Strand.....		(X)	366.6	(X)	246.0
34961 --						
33151 --	Made in industries 3312 (blast furnaces and steel mills) and 3315 (steel wiredrawing).....		(X)	270.2	(X)	164.2
34961 --	Made in industry 3496 (fabricated wire products, n.e.c.) and other industries ¹		(X)	96.4	(X)	81.8
33151 11	Steel wire rope and cable ⁵	1,000 s. tons.	398.2	243.2	274.6	176.1
34961 11		...do.....	333.0	188.2	172.6	98.9
33151 11	Made in industries 3312 and 3315.....	...do.....	65.2	55.0	101.7	77.2
34961 11	Made in industry 3496 and other industries.....	...do.....				
33151 21	Composite strand, rope, and cable, including wire strands of different metals (except ACSR).....	...do.....	4.0	7.1	26.0	23.0
34961 21		...do.....	70.6	27.2	59.8	19.0
33151 33	Steel wire strand for prestressed concrete ⁵.....	...do.....	175.0	55.4	68.1	25.3
34961 33		...do.....	142.1	48.3	(NA)	(NA)
33151 35	Steel wire strand except wire strand for prestressed concrete, including guard rail cable ⁵.....	...do.....	32.9	7.1	(NA)	(NA)
34961 35		...do.....			(NA)	(NA)
33151 35	Made in industries 3312 and 3315.....	...do.....			(NA)	(NA)
34961 35	Made in industry 3496 and other industries.....	...do.....			(NA)	(NA)
33151 41	Wire forms.....	...do.....	(NA)	28.1	(NA)	(NA)
34961 41		...do.....	(NA)	3.7	(NA)	(NA)
33151 41	Made in industries 3312 and 3315.....	...do.....	(NA)	24.4	(NA)	(NA)
34961 41	Made in industry 3496 and other industries.....	...do.....			(NA)	(NA)
33151 00	Noninsulated ferrous wire rope, cable, and strand, n.s.k.....		(X)	5.6	(X)	2.4
34961 00						
33157 --	Ferrous Wire Cloth and Other Woven Ferrous Wire Products.....		(X)	128.9	(X)	89.3
34964 --						
33157 --	Made in industries 3312 (blast furnaces and steel mills) and 3315 (steel wiredrawing).....		(X)	53.6	(X)	35.4
34964 --	Made in industry 3496 (fabricated wire products, n.e.c.) and other industries ¹		(X)	75.3	(X)	53.9
33157 21	Insect wire screening, steel, including stainless steel.....	Mil. sq. ft...	83.8	3.8	145.7	5.9
34964 11		1,000 s. tons.	10.0	11.4	18.1	12.4
33157 31	Hardware cloth.....	Mil. sq. ft...	(NA)	41.1	(NA)	33.4
34964 31		...do.....	(NA)	9.5	(NA)	(NA)
33157 61	Industrial wire cloth, steel.....	...do.....	(NA)	31.6	(NA)	(NA)
34964 61		...do.....	(NA)	25.7	(NA)	14.2
33157 61	Woven wire netting (poultry, fur farm, stucco, etc.) ⁵.....	...do.....	(NA)			
34964 61		...do.....	(NA)			
33157 71	Stainless steel paper machine wire cloth (Fourdrinier and cylinder).....	...do.....	(NA)	5.4	(X)	19.4
34964 71		...do.....	(NA)	5.4		
33157 81	Made in industries 3312 and 3315.....	...do.....	(NA)			
34964 81	Made in industry 3496 and other industries.....	...do.....				
33157 98	Other woven cloth and woven wire products, including diamond cloth, spiral cloth drying belts, etc.....	...do.....	(NA)	37.6	(X)	4.0
34964 98		...do.....				
33157 00	Ferrous wire cloth and other woven ferrous wire products, n.s.k.....		(X)	3.9	(X)	
34964 00						

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972		1967	
			Quantity	Value, f.o.b. plant (million dollars)	Quantity	Value, f.o.b. plant (million dollars)
3496- --	MISCELLANEOUS FABRICATED WIRE PRODUCTS--Continued					
33575 --	Nonferrous Wire Cloth and Other Woven Nonferrous Wire Products...		(X)	83.7	(X)	90.0
34965 --						
33575 --			(X)	33.9	(X)	36.2
34965 --			(X)	49.8	(X)	53.8
	Insect wire screening:					
33575 25	Aluminum.....	Mil. sq. ft..	510.3	26.9	472.1	21.4
34965 15						
33575 25		..do.....	312.3	14.0	351.1	14.1
34965 15	Made in industry 3496 and other industries.....	..do.....	198.0	12.9	121.0	7.3
33575 29	All other nonferrous metal.....	..do.....	(NA)	.7	56.1	1.6
34965 19						
	Paper machine wire cloth (Fourdrinier and cylinder):					
33575 53	Copper.....	..do.....	17.3	35.4	26.8	43.4
34965 53						
33575 53		..do.....	7.5	16.3	(NA)	(NA)
34965 53		..do.....	9.8	19.1	(NA)	(NA)
33575 59	All other.....	..do.....	1.9	5.9	5.3	5.9
34965 59						
33575 65	Industrial wire cloth, nonferrous.....	..do.....	10.2	11.5	17.5	14.4
34965 65						
33575 00	Nonferrous wire cloth and other woven nonferrous wire products, n.s.k.....		(X)	3.3	(X)	3.4
34965 00						
33156 --	Fencing and Fence Gates.....		(X)	245.6	(X)	130.8
34966 --						
33156 --			(X)	172.1	(X)	75.8
34966 --			(X)	73.5	(X)	55.0
33156 13	Chain link fencing, excluding posts, gates, and fittings.....	1,000 s. tons.	173.3	65.1	(NA)	49.5
34966 13						
33156 13		..do.....	141.4	37.4	(NA)	(NA)
34966 13		..do.....	31.9	27.7	(NA)	(NA)
33156 35	Fence gates, posts, and fittings.....	..do.....	235.8	76.4	(NA)	41.4
34966 35						
33156 21	Wire fence, woven and welded ⁵.....	..do.....	368.9	100.0	136.2	31.6
34966 21						
33156 21		..do.....	327.3	88.2	120.0	26.5
34966 21		..do.....	41.6	11.8	16.2	5.1
33156 71	Ornamental lawn fence.....	..do.....	4.0	2.3	7.7	2.5
34966 71						
33156 71		..do.....	(NA)	(NA)	7.2	2.0
34966 71		..do.....	(NA)	(NA)	.5	.5
33156 00	Fencing and fence gates, n.s.k.....		(X)	1.8	(X)	5.7
34966 00						
33159 --	Other Fabricated Wire Products.....		(X)	847.5	(X)	668.2
34969 --						
33159 --			(X)	390.0	(X)	293.7
34969 --			(X)	457.5	(X)	374.5
	Wire chain:					
33159 41	Tire.....	1,000 s. tons.	32.1	35.6	44.6	38.6
34969 41						
33159 49		..do.....	78.2	69.0	71.6	51.6
34969 49						
33159 49	Made in industries 3312 and 3315.....	..do.....	61.2	47.8	(NA)	(NA)
34969 49		..do.....	17.0	21.2	(NA)	(NA)
33159 51	Barbed and twisted steel wire ⁵.....	..do.....	141.2	37.9	165.7	34.6
34969 51						
33159 51		..do.....	118.6	31.0	(NA)	(NA)
34969 51		..do.....	22.6	6.9	(NA)	(NA)
33159 55	Wire bale ties ⁵.....	..do.....	143.7	36.4	129.3	25.9
34969 55						
33159 55		..do.....	130.2	30.6	108.1	20.4
34969 55		..do.....	13.5	5.8	21.2	5.5
	Welded steel wire fabric:					
33159 61	Concrete reinforcing mesh.....	..do.....	633.9	130.4	686.9	116.9
34969 61						
33159 61		..do.....	539.4	109.3	596.8	98.8
34969 61		..do.....	94.5	21.1	90.1	18.1
33159 65	Other welded steel wire fabric.....	..do.....	185.3	53.1	200.9	51.7
34969 65						
33159 65		..do.....	176.7	47.0	183.5	38.3
34969 65		..do.....	8.6	6.1	17.4	13.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972		1967	
			Quantity	Value, f.o.b. plant (million dollars)	Quantity	Value, f.o.b. plant (million dollars)
3496- --	MISCELLANEOUS FABRICATED WIRE PRODUCTS--Continued					
33159 --	Other Fabricated Wire Products--Continued					
34969 --						
33159 71	Wire garment hangers.....	Million lb...	233.7	48.2	254.1	39.3
34969 71	Made in industries 3312 and 3315.....	...do.....	176.5	32.4	(NA)	(NA)
33159 71	Made in industry 3496 and other industries.....	...do.....	57.2	15.8	(NA)	(NA)
33159 73	Wire carts, including household, grocery type, and industrial..	.....	(X)	36.3	(X)	19.2
34969 73	Steel wire cages.....	.....	(X)	9.3	(X)	16.1
33159 75	Paper clips.....	.....	(X)	359.8	(X)	3.2
34969 75	Other wire products, including baskets, guards, florists' designs, kitchenware, etc.....	.....	(X)	31.5	(X)	242.4
33159 77	Other fabricated wire products, n.s.k.....	.....	(X)	131.1	(X)	28.9
33159 98	Miscellaneous fabricated wire products, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	59.1	(X)	116.9
34969 88	Miscellaneous fabricated wire products, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)		(X)	27.0
33159 00						
34969 00						
34960 00						
34960 02						
Total product shipments including interplant transfers						
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3497- --	METAL FOIL AND LEAF, TOTAL.....		(X)	511.8	(X)	385.6
34971 --	Converted Unmounted Aluminum Foil Packaging Products, Plain, Printed, or Coated (Not Laminated to Other Materials). ^{1 6}	Million lb. metal content	273.3	197.3	196.9	163.0
34971 32	Household, institutional, and freezer foil.....	...do.....	197.3	138.1	133.2	104.6
34971 33	Semirigid containers.....	...do.....	63.4	45.3	40.0	28.4
34971 37	Other unmounted foil flexible packaging products, including gift wrap.....	...do.....	12.6	13.9	23.7	30.0
34972 --	Laminated Aluminum Foil Rolls and Sheets for Flexible Packaging Uses ^{1 7}.....	.....	(NA)	229.3	(NA)	(NA)
34972 10	Film/foil without paper.....	Million lb. metal content	9.4	19.1		
34972 20	Foil/paper: Polyethylene coated, laminated, or both.....	...do.....	32.3	72.2	148.0	161.5
34972 30	Other foil/paper combinations.....	...do.....	76.4	99.6		
34972 41	Gift wrap (laminated).....	...do.....	(NA)	38.4	14.2	18.6
34973 --	Converted Aluminum Foil for Nonpackaging Applications and Foil and Leaf ^{1 6}.....	...do.....	32.6	67.7	(NA)	(NA)
34973 52	Unmounted or coated, plain or printed.....	...do.....	17.7	28.8	(NA)	(NA)
34973 54	Laminated to other materials.....	...do.....	-	-	(NA)	(NA)
34973 56	Aluminum leaf.....	...do.....	(X)	38.9	(X)	34.6
34973 59	Other foil, including composition (combination of two or more metals), and metal leaf other than aluminum.....	...do.....	(X)			
34970 00	Metal foil and leaf, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	16.8	(X)	5.9
34970 02	Metal foil and leaf, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	.7	(X)	2.0
3498- --	FABRICATED PIPE AND FITTINGS, TOTAL.....		(X)	670.5	(X)	486.3
34980 13	Fabricated Pipe and Fittings: Iron and steel.....	1,000 s. tons.	(NA)	433.2	(NA)	334.8
34980 15	Aluminum and aluminum-base alloy.....	Million lb...	(NA)	23.8	(NA)	13.0
34980 17	Copper and copper-base alloy.....	...do.....	(NA)	41.2	(NA)	17.1
34980 19	All other nonferrous fabricated pipe and pipefittings.....	.....	(X)	71.5	(X)	35.2
34980 00	Fabricated pipe and fittings, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	84.8	(X)	81.5
34980 02	Fabricated pipe and fittings, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	16.0	(X)	5.0

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3499- --	FABRICATED METAL PRODUCTS, N.E.C., TOTAL.....		(X)	2,131.8	(X)	1,303.2
34991 --	Safes and Vaults ¹		(X)	146.2	(X)	79.2
34991 15	Safes and chests:					
34991 21	Fire-resistive ²	1,000 units...	138.2	14.8	146.6	13.3
	Burglary-resistive ³.....	...do.....	47.8	13.4	23.7	6.6
34991 41	Safe deposit boxes.....	...do.....	917.8	31.2	622.5	14.2
34991 98	All other bank and security vaults and equipment (including bank security lockers, night depositories, security equipment for drive-in windows and similar equipment, and signaling and alarm equipment when sold together with bank equipment) and other interior equipment for safes and chests.....		(X)	85.8		
34991 00	Safes and vaults, n.s.k.....		(X)	1.0	(X)	45.1
34992 --	Collapsible Tubes ¹		(X)	49.1	(X)	50.7
34992 11	Aluminum.....	Million gross.	5.8	35.0	6.6	31.7
34992 12	Lead.....	...do.....	1.2	7.8	2.2	11.9
34992 13	Tin.....	...do.....	.6	5.8	.8	6.4
34992 29	Other, including tin-coated and tin-lead alloy.....				(X)	.4
34992 00	Collapsible tubes, n.s.k.....	Million gross.	(X)	.5	(X)	.3
34993 57	Flat metal strapping ¹	1,000 s. tons.	482.1	167.8	403.7	129.9
34994 --	All Other Fabricated Metal Products, N.E.C. ¹		(X)	1,390.5	(X)	840.4
34994 11	Metal ammunition boxes and chests.....		(X)	8.6	(⁹)	(⁹)
34994 43	Metal ladders:					
34994 45	Step and platform types.....	1,000 units...	1,687.9	26.9	(NA)	11.6
	Extension, straight, trestle, and trestle-extension ladders...	...do.....	(NA)	19.9	607.3	9.5
34994 54	Metal ironing boards.....	...do.....	(NA)	6.1	2,468.2	12.7
34994 55	Permanent magnets.....	...do.....	(X)	72.0	(X)	58.1
34994 56	Fabricated assemblies of railroad frogs, switches, and crossings	1,000 s. tons.	172.6	75.1	188.6	76.0
34994 58	Cast metal memorial tablets and grave markers.....		(X)	11.4	(X)	10.9
34994 61	Steel boxes for packaging and shipping.....					
34994 65	Stamped metal wheels for golf carts, lawn mowers, etc. (disc type).....		(X)	38.0		
34994 71	Metal aerosol valves.....		(X)	34.2	(X)	⁹ 661.6
34994 75	Spools and reels.....		(X)	10.9		
34994 98	Other fabricated metal products, n.e.c.....		(NA)	1,087.4		
34990 00	Fabricated metal products, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	289.1	(X)	182.8
34990 02	Fabricated metal products, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	89.1	(X)	20.2

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

¹For those product classes in this table that have undergone SIC revisions in 1972, the relationships between their SIC number on the new SIC basis and their SIC number on the old SIC basis are as follows:

New SIC	Old SIC	New SIC	Old SIC	New SIC	Old SIC	New SIC	Old SIC
34931 } 34932 } 34952 } 34953 }	34930 34812 34813	34961 34964 34965 34966	34811 34814 34815 34816	34969 34971 34972 34973 }	34819 34970	34991 34992 34993 34994 }	34920 34960 34990

²Data for product code 34931 08 are included with product code 34931 04 to avoid disclosing operations of individual companies.

³For 1967, product code 34941 60 is combined with product code 34941 40.

⁴Includes only the value of fittings and assemblies for tubing and hose reported as such. Furthermore, it represents, principally, fittings and assemblies reported by establishments classified in the Valves and Pipe Fittings Industry. An indeterminate amount of these products may have been classified by respondents as rubber hose and tubing (SIC 3041), flexible metal hose and tubing (SIC 3599), hardware hose fittings and couplings (SIC 3429), screw machine products (SIC 3451), and refrigeration machinery (SIC 3585).

⁵Annual data are published for these products in Current Industrial Reports, series MA-33B, "Steel Mill Products."

⁶More detailed data on converted aluminum foil are available in Current Industrial Reports, series MA-347, "Aluminum Foil Converted." That report contains data on poundages of aluminum foil converted by end use. However, it is not possible to precisely compare the data in this industry with data in the annual current industrial report. Some of the products for which aluminum foil consumption is reported in the annual survey are produced for use by the same company to package a commodity. In such cases, the converted aluminum foil product is not included in this industry but is included as a portion of the value of the packaged commodity.

⁷More detailed data are available in Current Industrial Reports, series M26F, "Converted Flexible Packaging Products." There are inconsistencies in classification between these two surveys.

⁸Safes and vaults are shown as fire-resistive or burglary-resistive, depending on the primary purpose for which they are built.

⁹Product code 34994 11 combined with code 34994 98 for 1967.

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER METAL VALUES FOR PIPING SYSTEMS, EXCEPT PLUMBING AND HEATING (34943)--Continued			METAL FITTINGS FLANGES AND UNIONS FOR PIPING SYSTEMS (34945)		
Northeast Region--Continued			United States.....	602.2	484.7
Middle Atlantic Division.....	163.3	133.1	Northeast Region.....	202.6	175.9
New York.....	43.2	31.2	New England Division.....	19.2	33.1
New Jersey.....	21.4	31.8	New Hampshire.....	BB	(NA)
Pennsylvania.....	98.7	70.1	Massachusetts.....	5.6	10.1
North Central Region.....	323.7	283.7	Rhode Island.....	BB	15.9
East North Central Division.....	274.1	253.9	Connecticut.....	6.4	CC
Ohio.....	99.4	101.3	Middle Atlantic Division.....	183.4	142.8
Indiana.....	19.5	15.8	New York.....	23.5	14.3
Illinois.....	127.0	106.6	New Jersey.....	20.0	15.1
Michigan.....	20.8	18.1	Pennsylvania.....	140.0	113.4
Wisconsin.....	7.4	12.0	North Central Region.....	192.9	179.6
West North Central Division.....	49.5	29.8	East North Central Division.....	180.9	166.8
Minnesota.....	CC	CC	Ohio.....	30.5	41.7
Iowa.....	FF	CC	Indiana.....	34.0	FF
Missouri.....	BB	AA	Illinois.....	54.4	44.5
Nebraska.....	CC	EE	Michigan.....	FF	EE
Kansas.....	BB	BB	Wisconsin.....	FF	FF
South Region.....	331.8	211.8	West North Central Division.....	12.0	12.8
South Atlantic Division.....	22.5	EE	Missouri.....	EE	CC
Maryland.....	AA	(NA)	South Region.....	172.1	112.2
North Carolina.....	EE	EE	South Atlantic Division.....	CC	10.3
East South Central Division.....	100.3	GG	Virginia.....	CC	(NA)
Kentucky.....	EE	EE	Georgia.....	AA	CC
Tennessee.....	46.0	35.6	East South Central Division.....	102.9	61.8
Alabama.....	FF	FF	Kentucky.....	41.6	FF
West South Central Division.....	209.0	124.7	Tennessee.....	CC	(NA)
Arkansas.....	EE	CC	Alabama.....	FF	FF
Louisiana.....	FF	EE	Mississippi.....	CC	BB
Oklahoma.....	28.5	11.3	West South Central Division.....	GG	40.2
Texas.....	147.0	90.6	Arkansas.....	CC	CC
West Region.....	83.8	81.3	Texas.....	GG	FF
Mountain Division.....	CC	BB	West Region.....	34.6	17.1
Colorado.....	CC	BB	Mountain Division.....	EE	BB
Pacific Division.....	GG	GG	Colorado.....	EE	BB
Oregon.....	AA	BB	Pacific Division.....	FF	EE
California.....	FF	74.2	California.....	FF	11.9
PLUMBING AND HEATING VALVES, ETC., EXCEPT BRASS GOODS (34944)			FITTINGS AND ASSEMBLIES FOR TUBING, EXCEPT BRASS (34946)		
United States.....	139.3	101.2	United States.....	193.3	55.1
Northeast Region.....	37.7	20.1	Northeast Region.....	EE	2.2
New England Division.....	3.1	2.7	Middle Atlantic Division.....	EE	BB
Massachusetts.....	BB	BB	New York.....	AA	(NA)
Middle Atlantic Division.....	34.7	17.4	New Jersey.....	CC	(NA)
New York.....	EE	BB	Pennsylvania.....	2.5	AA
New Jersey.....	CC	CC	North Central Region.....	122.8	49.2
Pennsylvania.....	14.1	6.3	East North Central Division.....	GG	49.2
North Central Region.....	69.0	60.1	Ohio.....	55.6	FF
East North Central Division.....	57.0	52.9	Indiana.....	19.5	CC
Ohio.....	11.1	11.8	Illinois.....	48.6	9.2
Indiana.....	11.6	7.8	Michigan.....	EE	BB
Illinois.....	18.8	24.4	Wisconsin.....	AA	(NA)
Michigan.....	CC	CC	West North Central Division.....	CC	(NA)
Wisconsin.....	CC	BB	Minnesota.....	BB	(NA)
West North Central Division.....	12.0	7.3	Nebraska.....	AA	(NA)
Iowa.....	CC	5.1	South Region.....	CC	3.1
Missouri.....	AA	AA	South Atlantic Division.....	BB	AA
Nebraska.....	BB	(NA)	Georgia.....	BB	(NA)
South Region.....	22.7	16.8	East South Central Division.....	BB	(NA)
South Atlantic Division.....	7.1	CC	Alabama.....	BB	(NA)
West Virginia.....	BB	CC	West Region.....	12.3	.6
North Carolina.....	AA	(NA)	Pacific Division.....	12.3	(NA)
East South Central Division.....	BB	AA	Oregon.....	AA	(NA)
Tennessee.....	BB	(NA)	California.....	EE	(NA)
Alabama.....	BB	AA			
West South Central Division.....	EE	CC			
Texas.....	EE	CC			
West Region.....	9.9	4.1			
Pacific Division.....	CC	4.1			
California.....	CC	4.1			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PRECISION MECHANICAL SPRINGS (34952)			NONINSULATED FERROUS WIRE ROPE AND STRAND (33151 AND 34961)		
United States.....	250.4	211.0	United States.....	366.6	246.0
Northeast Region.....	62.5	54.9	Northeast Region.....	145.0	131.6
New England Division.....	33.5	30.2	New England Division.....	21.7	37.9
Massachusetts.....	BB	3.8	Rhode Island.....	BB	(NA)
Connecticut.....	29.4	26.5	Connecticut.....	EE	EE
Middle Atlantic Division.....	29.0	24.6	Middle Atlantic Division.....	123.2	93.7
New York.....	9.7	5.7	New York.....	8.4	3.8
New Jersey.....	1.6	1.7	New Jersey.....	45.8	33.5
Pennsylvania.....	17.7	17.3	Pennsylvania.....	69.1	56.4
North Central Region.....	161.8	138.6	North Central Region.....	137.8	62.8
East North Central Division.....	158.6	136.8	East North Central Division.....	86.1	FF
Ohio.....	20.8	11.5	Ohio.....	7.7	3.3
Indiana.....	19.5	16.5	Illinois.....	42.6	13.4
Illinois.....	59.4	58.2	Michigan.....	(NA)	(NA)
Michigan.....	56.4	49.3	West North Central Division.....	51.7	FF
Wisconsin.....	2.5	1.4	Minnesota.....	BB	FF
West North Central Division.....	3.2	1.8	Kansas.....	(NA)	(NA)
Minnesota.....	AA	AA	South Region.....	61.0	27.7
South Region.....	10.8	6.4	South Atlantic Division.....	36.8	22.0
South Atlantic Division.....	3.6	1.3	Virginia.....	(NA)	(NA)
North Carolina.....	1.7	(NA)	East South Central Division.....	EE	(NA)
Georgia.....	AA	(NA)	Tennessee.....	BB	(NA)
East South Central Division.....	CC	BB	Alabama.....	CC	(NA)
Kentucky.....	BB	BB	West South Central Division.....	(NA)	(NA)
West South Central Division.....	BB	BB	Louisiana.....	(NA)	(NA)
Texas.....	BB	BB	Texas.....	(NA)	(NA)
West Region.....	15.2	11.2	West Region.....	23.1	23.9
Pacific Division.....	EE	11.2	Pacific Division.....	EE	EE
California.....	EE	EE	Washington.....	(NA)	(NA)
OTHER WIRE SPRINGS (34953)			California.....	EE	EE
United States.....	312.0	254.1	FERROUS WIRE CLOTH AND OTHER FERROUS WOVEN WIRE PRODUCTS, (33157 AND 34964)		
Northeast Region.....	32.8	31.6	United States.....	128.9	89.3
New England Division.....	13.8	9.1	Northeast Region.....	32.9	23.7
Massachusetts.....	10.3	6.2	Middle Atlantic Division.....	EE	13.5
Connecticut.....	3.5	2.9	New York.....	(NA)	BB
Middle Atlantic Division.....	19.0	22.5	New Jersey.....	(NA)	(NA)
New York.....	7.3	5.6	Pennsylvania.....	EE	7.9
New Jersey.....	6.1	2.6	North Central Region.....	56.2	39.8
Pennsylvania.....	5.6	14.2	East North Central Division.....	FF	FF
North Central Region.....	158.3	141.6	Ohio.....	(NA)	11.6
East North Central Division.....	125.8	125.8	Indiana.....	(NA)	AA
Ohio.....	CC	29.4	Illinois.....	FF	18.8
Indiana.....	23.0	15.4	Michigan.....	(NA)	AA
Illinois.....	31.8	35.9	Wisconsin.....	(NA)	(NA)
Michigan.....	59.7	42.0	West North Central Division.....	(NA)	CC
Wisconsin.....	BB	(NA)	Missouri.....	(NA)	CC
West North Central Division.....	32.4	15.8	South Region.....	EE	17.4
Iowa.....	BB	(NA)	South Atlantic Division.....	(NA)	9.8
Missouri.....	EE	9.9	Maryland.....	(NA)	CC
Nebraska.....	EE	BB	North Carolina.....	(NA)	BB
Kansas.....	AA	1.6	East South Central Division.....	BB	CC
South Region.....	90.9	59.9	Alabama.....	(NA)	BB
South Atlantic Division.....	29.9	19.2	West South Central Division.....	(NA)	(NA)
Maryland.....	BB	BB	West Region.....	FF	8.5
North Carolina.....	FF	12.8	Pacific Division.....	EE	CC
Florida.....	AA	(NA)	Oregon.....	(NA)	AA
East South Central Division.....	40.9	23.9	California.....	EE	5.8
Kentucky.....	FF	EE	NONFERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (33575 AND 34965)		
Tennessee.....	BB	AA	United States.....	83.7	90.1
Mississippi.....	CC	BB	Northeast Region.....	36.9	38.1
West South Central Division.....	20.1	16.8	New England Division.....	15.9	7.5
Arkansas.....	EE	EE	Massachusetts.....	CC	BB
Oklahoma.....	AA	(NA)	Connecticut.....	EE	BB
Texas.....	7.5	CC			
West Region.....	30.0	21.0			
Mountain Division.....	BB	BB			
Colorado.....	BB	AA			
Arizona.....	AA	(NA)			
Pacific Division.....	FF	EE			
Oregon.....	BB	(NA)			
California.....	23.1	16.8			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
NONFERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (33575 AND 34965)--Continued			OTHER FABRICATED WIRE PRODUCTS (33159 AND 34969)--Continued		
Northeast Region--Continued			South Region.....	188.1	113.5
Middle Atlantic Division.....	21.0	30.7	South Atlantic Division.....	93.0	49.0
New York.....	AA	(NA)	Maryland.....	FF	19.1
New Jersey.....	BB	8.2	North Carolina.....	(NA)	(NA)
Pennsylvania.....	15.4	19.6	South Carolina.....	EE	(NA)
			Georgia.....	EE	5.9
North Central Region.....	FF	27.7	Florida.....	18.3	12.1
East North Central Division.....	20.2	FF	East South Central Division.....	53.7	41.6
Ohio.....	CC	EE	Kentucky.....	(NA)	(NA)
Illinois.....	BB	(NA)	Tennessee.....	FF	15.5
Michigan.....	1.1	(NA)	Alabama.....	EE	18.8
Wisconsin.....	CC	(NA)	Mississippi.....	(NA)	(NA)
			West South Central Division.....	41.2	22.9
South Region.....	27.8	23.3	Arkansas.....	(NA)	(NA)
South Atlantic Division.....	16.4	13.3	Oklahoma.....	(NA)	(NA)
Georgia.....	EE	(NA)	Texas.....	EE	10.4
Florida.....	3.3	CC			
East South Central Division.....	EE	(NA)	West Region.....	93.3	67.3
Alabama.....	CC	(NA)	Mountain Division.....	EE	FF
Mississippi.....	CC	BB	Colorado.....	EE	FF
			Pacific Division.....	GG	FF
West Region.....	AA	1.0	Washington.....	CC	3.8
Pacific Division.....	AA	(NA)	Oregon.....	(NA)	(NA)
			California.....	GG	40.2
FENCING AND FENCE GATES (33156 AND 34966)			CONVERTED UNMOUNTED ALUMINUM FOIL PACKAGING PRODUCTS (NOT LAMINATED TO OTHER MATERIALS) ² (34971)		
United States.....	245.6	130.8	United States.....	197.3	(NA)
Northeast Region.....	19.4	7.6	Northeast Region.....	9.5	(NA)
New England Division.....	CC	BB	New England Division.....	BB	(NA)
Massachusetts.....	(NA)	(NA)	Connecticut.....	AA	(NA)
Middle Atlantic Division.....	EE	BB	Middle Atlantic Division.....	CC	(NA)
New York.....	(NA)	(NA)	New Jersey.....	BB	(NA)
New Jersey.....	(NA)	(NA)	Pennsylvania.....	BB	(NA)
North Central Region.....	91.8	54.4			
East North Central Division.....	GG	42.8	North Central Region.....	35.3	(NA)
Ohio.....	EE	11.0	East North Central Division.....	FF	(NA)
West North Central Division.....	EE	11.6	Indiana.....	EE	(NA)
Minnesota.....	(NA)	(NA)	Illinois.....	FF	(NA)
			West North Central Division.....	BB	(NA)
South Region.....	99.1	43.6	Missouri.....	AA	(NA)
East South Central Division.....	FF	CC	Nebraska.....	BB	(NA)
Alabama.....	AA	CC			
West South Central Division.....	FF	EE	South Region.....	136.4	(NA)
Texas.....	FF	15.4	South Atlantic Division.....	FF	(NA)
			Virginia.....	FF	(NA)
West Region.....	35.3	25.2	North Carolina.....	AA	(NA)
Pacific Division.....	FF	FF	East South Central Division.....	GG	(NA)
California.....	20.0	FF	Kentucky.....	GG	(NA)
			Tennessee.....	FF	(NA)
OTHER FABRICATED WIRE PRODUCTS (33159 AND 34969)					
United States.....	847.5	668.2	West Region.....	16.1	(NA)
Northeast Region.....	256.3	196.6	Pacific Division.....	EE	(NA)
New England Division.....	36.0	35.7	California.....	EE	(NA)
Massachusetts.....	EE	9.6			
Rhode Island.....	(NA)	(NA)	LAMINATED ALUMINUM FOIL ROLLS AND SHEETS FOR FLEXIBLE PACKAGING USES ² (34972)		
Connecticut.....	(NA)	24.1			
			United States.....	229.3	(NA)
Middle Atlantic Division.....	220.3	160.9	Northeast Region.....	43.5	(NA)
New York.....	62.5	43.9	New England Division.....	7.2	(NA)
New Jersey.....	32.7	33.9	Vermont.....	AA	(NA)
Pennsylvania.....	125.1	83.1	Massachusetts.....	CC	(NA)
			Connecticut.....	AA	(NA)
North Central Region.....	310.0	290.8			
East North Central Division.....	229.6	227.6	Middle Atlantic Division.....	36.3	(NA)
Ohio.....	34.4	37.9	New York.....	CC	(NA)
Indiana.....	41.7	35.7	New Jersey.....	12.2	(NA)
Illinois.....	83.6	106.1	Pennsylvania.....	EE	(NA)
Michigan.....	EE	41.0			
Wisconsin.....	EE	6.9	North Central Region.....	74.6	(NA)
			East North Central Division.....	58.5	(NA)
West North Central Division.....	80.5	53.1	Ohio.....	33.0	(NA)
Minnesota.....	EE	15.8	Indiana.....	5.5	(NA)
Iowa.....	CC	10.0	Illinois.....	BB	(NA)
Missouri.....	FF	30.8	Wisconsin.....	14.4	(NA)
Kansas.....	(NA)	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
LAMINATED ALUMINUM FOIL ROLLS AND SHEETS FOR FLEXIBLE PACKAGING USES ² (34972)--Continued			COLLAPSIBLE TUBES (34992)--Continued		
North Central Region--Continued			Northeast Region--Continued		
West North Central Division.....	16.1	(NA)	Middle Atlantic Division.....	FF	(NA)
Iowa.....	CC	(NA)	New Jersey.....	EE	(NA)
Missouri.....	EE	(NA)	Pennsylvania.....	CC	(NA)
South Region.....	107.1	(NA)	North Central Region.....	CC	(NA)
South Atlantic Division.....	56.2	(NA)	East North Central Division.....	CC	(NA)
Virginia.....	FF	(NA)	Indiana.....	AA	(NA)
North Carolina.....	FF	(NA)	Illinois.....	BB	(NA)
Florida.....	AA	(NA)	West North Central Division.....	AA	(NA)
East South Central Division.....	41.6	(NA)	Iowa.....	AA	(NA)
Kentucky.....	FF	(NA)	South Region.....	CC	(NA)
Tennessee.....	EE	(NA)	South Atlantic Division.....	BB	(NA)
Mississippi.....	BB	(NA)	West Virginia.....	BB	(NA)
West South Central Division.....	9.3	(NA)	East South Central Division.....	BB	(NA)
Arkansas.....	CC	(NA)	Kentucky.....	BB	(NA)
Louisiana.....	BB	(NA)	West South Central Division.....	CC	(NA)
West Region.....	4.1	(NA)	Arkansas.....	CC	(NA)
Pacific Division.....	4.1	(NA)	West Region.....	BB	(NA)
California.....	BB	(NA)	Pacific Division.....	BB	(NA)
			California.....	BB	(NA)
CONVERTED ALUMINUM FOIL FOR NONPACKAGING APPLICATIONS AND FOIL AND LEAF ² (34973)			FLAT METAL STRAPPING ³ (34993)		
United States.....	67.7	(NA)	United States.....	167.8	(NA)
Northeast Region.....	32.3	(NA)	Northeast Region.....	27.6	(NA)
New England Division.....	CC	(NA)	New England Division.....	EE	(NA)
Connecticut.....	CC	(NA)	Connecticut.....	EE	(NA)
Middle Atlantic Division.....	FF	(NA)	Middle Atlantic Division.....	EE	(NA)
New York.....	AA	(NA)	New York.....	EE	(NA)
New Jersey.....	FF	(NA)	Pennsylvania.....	BB	(NA)
Pennsylvania.....	AA	(NA)			
North Central Region.....	FF	(NA)	North Central Region.....	GG	(NA)
East North Central Division.....	FF	(NA)	East North Central Division.....	GG	(NA)
Ohio.....	FF	(NA)	Ohio.....	EE	(NA)
West North Central Division.....	BB	(NA)	Illinois.....	GG	(NA)
Missouri.....	BB	(NA)	South Region.....	FF	(NA)
South Region.....	CC	(NA)	South Atlantic Division.....	FF	(NA)
South Atlantic Division.....	BB	(NA)	Maryland.....	EE	(NA)
North Carolina.....	BB	(NA)	West Virginia.....	EE	(NA)
West South Central Division.....	CC	(NA)	East South Central Division.....	BB	(NA)
Texas.....	CC	(NA)	Mississippi.....	AA	(NA)
West Region.....	BB	(NA)	West South Central Division.....	AA	(NA)
Pacific Division.....	BB	(NA)	Texas.....	AA	(NA)
California.....	BB	(NA)	West Region.....	10.3	(NA)
			Pacific Division.....	EE	(NA)
SAFES AND VAULTS (34991)			California.....	EE	(NA)
United States.....	146.2	(NA)	ALL OTHER FABRICATED METAL PRODUCTS, N.E.C. ³ (34994)		
Northeast Region.....	2.7	(NA)	United States.....	1,390.5	(NA)
Middle Atlantic Division.....	BB	(NA)	Northeast Region.....	348.8	(NA)
New York.....	BB	(NA)	New England Division.....	122.0	(NA)
North Central Region.....	135.1	(NA)	Massachusetts.....	63.1	(NA)
East North Central Division.....	GG	(NA)	Rhode Island.....	EE	(NA)
Ohio.....	GG	(NA)	Connecticut.....	43.9	(NA)
Indiana.....	BB	(NA)	Middle Atlantic Division.....	226.8	(NA)
West North Central Division.....	EE	(NA)	New York.....	54.3	(NA)
Iowa.....	EE	(NA)	New Jersey.....	43.0	(NA)
South Region.....	BB	(NA)	Pennsylvania.....	129.5	(NA)
South Atlantic Division.....	BB	(NA)	North Central Region.....	593.1	(NA)
Florida.....	BB	(NA)	East North Central Division.....	512.7	(NA)
West Region.....	CC	(NA)	Ohio.....	112.2	(NA)
Pacific Division.....	CC	(NA)	Indiana.....	58.8	(NA)
California.....	CC	(NA)	Illinois.....	240.4	(NA)
COLLAPSIBLE TUBES (34992)			Michigan.....	74.6	(NA)
United States.....	49.1	(NA)	Wisconsin.....	26.7	(NA)
Northeast Region.....	26.8	(NA)	West North Central Division.....	80.4	(NA)
New England Division.....	CC	(NA)	Minnesota.....	18.8	(NA)
Connecticut.....	CC	(NA)	Iowa.....	11.7	(NA)
			Missouri.....	39.4	(NA)
			Kansas.....	EE	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ALL OTHER FABRICATED METAL PRODUCTS, N.E.C. (34994)--Continued			ALL OTHER FABRICATED METAL PRODUCTS, N.E.C. (34994)--Continued		
South Region.....	327.8	(NA)	South Region--Continued		
South Atlantic Division.....	199.1	(NA)	West South Central Division.....	61.9	(NA)
Maryland.....	23.4	(NA)	Arkansas.....	AA	(NA)
Virginia.....	7.5	(NA)	Louisiana.....	BB	(NA)
West Virginia.....	5.9	(NA)	Oklahoma.....	9.4	(NA)
North Carolina.....	124.7	(NA)	Texas.....	45.6	(NA)
South Carolina.....	8.0	(NA)			
Georgia.....	13.2	(NA)	West Region.....	120.8	(NA)
Florida.....	16.5	(NA)	Mountain Division.....	33.1	(NA)
			Idaho.....	CC	(NA)
East South Central Division.....	66.8	(NA)	Colorado.....	21.5	(NA)
Kentucky.....	30.2	(NA)	Arizona.....	2.2	(NA)
Tennessee.....	EE	(NA)	Pacific Division.....	87.7	(NA)
Alabama.....	16.2	(NA)	Washington.....	BB	(NA)
Mississippi.....	CC	(NA)	Oregon.....	8.2	(NA)
			California.....	75.6	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9
GG.....\$50.0 and over

(NA) Not available.

¹Separate data for 1967 are not available, since this product class was part of 1967 product class 34930.

²Separate data for 1967 are not available, since this product class was part of 1967 product class 34970.

³Separate data for 1967 are not available, since this product class was part of 1967 product class 34990.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3493	Steel springs, except wire.....	361.8	272.3	247.6	315.0	310.3	264.0	205.2	133.1
34931	Hot formed springs ²	361.8	272.3	247.6	315.0	310.3	264.0	205.2	133.1
34932	Cold formed springs ²								
34930	Steel springs, except wire, n.s.k.....								
3494	Valves and pipe fittings.....	2,891.6	2,657.8	2,542.4	2,427.8	2,242.0	2,091.9	1,525.4	1,182.7
34941	Automatic regulating and control valves.....	513.3	435.6	433.6	395.6	359.3	327.9	(NA)	(NA)
34942	Valves for power transfer (pneumatic and hydraulic).....	306.8	250.9	274.6	298.7	271.1	229.5	(NA)	(NA)
34943	Other metal valves for piping systems, except plumbing and heating valves.....	1,036.9	1,003.4	914.4	901.7	848.0	793.6	(NA)	(NA)
34944	Plumbing and heating valves, etc., except brass goods.....	139.3	211.9	184.7	131.6	119.0	101.2	(NA)	(NA)
34945	Metal fittings, flanges and unions for piping systems.....	602.2	582.5	569.3	547.3	490.2	484.7	(NA)	(NA)
34946	Fittings and assemblies for tubing, except brass goods.....	193.3	128.1	108.8	73.8	66.9	55.1	(NA)	(NA)
34940	Valves and pipe fittings, n.s.k.....	99.8	45.4	(57.0)	79.1	87.5	99.9	26.5	20.3
3495	Wire springs.....	566.1	479.5	461.8	538.8	532.4	465.1	389.5	296.8
34952	Precision mechanical springs ²	250.5	226.6	214.6	253.5	227.8	211.0	150.0	109.0
34953	Other wire springs ²	312.0	252.9	247.2	285.3	304.6	254.1	239.5	187.8
34950	Wire springs, n.s.k.....	3.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3496	Miscellaneous fabricated wire products (not produced by wire drawers) ³	942.7	838.3	788.5	828.6	827.1	763.0	(NA)	(NA)
34961	Noninsulated ferrous wire rope, cable, etc. ²	96.4	80.4	82.1	91.4	88.7	81.8	89.0	69.3
34964	Ferrous wire cloth and woven wire products ²	75.3	83.5	82.8	56.6	49.2	53.9	48.0	455.7
34965	Nonferrous wire cloth and woven wire products ²	49.8	63.8	66.7	43.6	70.9	53.8	(NA)	(NA)
34966	Fencing and fence gates ²	73.5	58.9	(61.7)	47.0	59.5	55.1	57.1	55.3
34969	Other fabricated wire products ²	457.5	467.8	424.2	472.7	441.9	374.5	320.0	262.5
34960	Miscellaneous fabricated wire products, n.s.k.....	190.2	83.9	(71.0)	117.3	116.9	143.9	60.0	38.1
3497	Metal foil and leaf.....	511.8	375.4	391.3	418.4	389.7	385.6	329.9	145.5
34971	Converted aluminum foil packaging products ²	197.3	375.4	391.3	418.4	389.7	385.6	329.9	145.5
34972	Laminated aluminum foil roll, sheets, for packaging uses ² ..	229.3							
34973	Converted aluminum foil for nonpackaging uses ²	67.7							
34970	Metal foil and leaf, n.s.k.....	17.5							
34980	Fabricated pipe and fittings.....	670.5	545.2	514.2	475.1	547.1	486.3	286.5	265.4

See footnotes at end of table.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:
1958, 1963, 1967 to 1972—Continued

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
3499	Fabricated metal products n.e.c.....	2,131.8	1,725.5	1,749.1	1,594.8	1,496.4	1,303.3	856.9	525.9
34991	Safes and vaults ²	146.2	129.4	133.2	117.9	99.7	79.5	59.3	45.1
34992	Collapsible tubes ²	49.1	57.8	61.5	62.5	50.3	50.9	44.2	37.2
34993	Flat metal strapping ²	167.8							
34994	All other fabricated metal products, n.e.c. ²	1,390.5	(1,538.3)	1,554.4	1,414.4	1,346.4	1,172.9	753.4	443.6
34990	Fabricated metal products, n.e.c., n.s.k.....	378.2							
	Product Classes Primary to Two Industries or More (The share from each industry is shown in addition to the total for all industries)								
	Noninsulated ferrous wire rope, cable, etc., total for all industries.....	366.6	298.0	301.1	291.7	276.0	246.0	189.9	163.4
33151	Made in industries 3312 and 3315.....	270.2	217.6	219.0	200.3	187.3	164.2	100.9	94.1
34961	Made in fabricated wire products, n.e.c., (industry 3496) and other industries.....	96.4	80.4	82.1	91.4	88.7	81.8	89.0	69.3
	Ferrous wire cloth and other ferrous woven wire products, total for all industries.....	128.9	137.2	134.6	106.3	90.6	89.3	72.3	⁴ 81.6
33157	Made in industries 3312 and 3315.....	53.6	53.7	51.8	49.7	41.4	35.4	24.3	25.9
34964	Made in fabricated wire products, n.e.c., (industry 3496) and other industries.....	75.3	83.5	82.8	56.6	49.2	53.9	48.0	⁴ 55.7
	Nonferrous wire cloth and other woven wire products, total for all industries.....	83.7	87.8	97.4	81.7	107.9	90.0	70.5	(NA)
33575	Made in nonferrous wire drawing plants (industry 3357).....	33.9	24.0	30.7	38.1	37.0	36.2	70.5	(NA)
34965	Made by other than nonferrous wire drawers (industry 3357).....	49.8	63.8	66.7	43.6	70.9	53.8		
	Fencing and fence gates, total for all industries.....	245.6	175.0	(166.3)	139.1	148.1	130.9	115.4	103.3
33156	Made in industries 3312 and 3315.....	172.1	116.1	104.6	92.1	88.6	75.8	58.3	48.0
34966	Made in fabricated wire products, n.e.c., (industry 3496) and other industries.....	73.5	58.9	(61.7)	47.0	59.5	55.1	57.1	55.3
	Other fabricated wire products, total for all industries.....	847.5	814.5	748.6	786.7	752.1	668.9	501.6	405.7
33159	Made in industries 3312 and 3315.....	390.0	346.7	324.4	314.0	310.2	294.4	320.0	262.5
34969	Made in fabricated wire products, n.e.c., (industry 3496) and other industries.....	457.5	467.8	424.2	472.7	441.9	374.5	181.6	143.2

(NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with those estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

²This product class was revised effective in 1972. See footnote 1, table 6A, for a comparison between the new SIC code and old SIC code for this product class.

³Some or all of the products primary to this industry are also primary to one other industry or more. The 4-digit product-group totals exclude the values produced by the other primary industries, and, therefore, are not comparable to product-group (4-digits) and product class (5-digits) totals shown in table 6A and table 6B, respectively.

⁴In 1958, combined data were collected for ferrous and nonferrous woven wire products. This estimate of ferrous wire cloth is based on the ratio of ferrous cloth to total wire cloth and other woven wire products for 1963.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3493.--STEEL SPRINGS, EXCEPT WIRE					
	Materials, containers, parts, and supplies, total.....		(X)	172.7	(X)	90.5
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	46.3	10.2	80.7	15.3
331012	Sheet and strip.....	...do.....	8.0	3.6	24.4	6.5
331017	Wire and wire products.....	...do.....	26.2	9.4	11.0	5.1
331019	All other carbon steel mill shapes and forms.....	...do.....	54.9	11.5	1.2	.2
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....	235.3	52.0	155.8	28.0
331029	All other alloy steel mill shapes and forms.....	...do.....	.6	.4	8.6	2.0
	Stainless steel mill shapes and forms:					
331033	Sheet and strip.....	...do.....	1.2	2.5	.2	.4
331050	All other.....	...do.....	.3	.6		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	68.6	(X)	13.1
976000	Materials, parts, containers, etc., n.s.k. ¹		(X)	13.9	(X)	19.9
	INDUSTRY 3494.--VALVES AND PIPE FITTINGS					
	Materials, parts, containers, and supplies, total.....		(X)	1,066.5	(X)	799.0
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	130.2	35.1	107.3	23.7
331012	Sheet and strip.....	...do.....	29.4	7.1	18.3	3.8
331013	Plates.....	...do.....	35.0	12.5	32.3	7.3
331019	All other carbon steel mill shapes and forms.....	...do.....	84.0	24.4	53.8	14.1
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	9.0	6.6	12.9	4.1
331029	All other alloy steel mill shapes and forms.....	...do.....	13.2	7.0	11.6	4.7
	Stainless steel:					
331033	Sheet and strip.....	...do.....	4.7	6.1	19.0	22.9
331050	All other.....	...do.....	19.1	30.3		
	Copper and copper base alloy:					
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	2.7	2.4	3.6	3.0
335102	Rod, bar and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	89.9	52.8	115.2	60.0
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	1.7	1.6	(NA)	3.1
335152	Pipe and tube.....	...do.....	29.4	19.1	26.4	14.1
	Aluminum and aluminum-base alloy:					
335405	Extruded shapes (rod, bar, pipe, etc.).....	...do.....	8.9	5.2	8.0	4.2
335008	All other aluminum mill shapes and forms (wire, rod, etc.)....	...do.....	1.2	1.0	3.7	1.7
	Primary metals:					
331051	Pig iron.....	1,000 s. tons.	86.3	6.0	70.1	4.1
333401	Aluminum and aluminum-base alloy refinery shapes, (ingot, slugs, etc.).....	...do.....	2.6	1.4	1.6	.8
333122	Copper and copper-base alloy refinery shapes.....	...do.....	61.7	58.8	41.2	37.1
	Scrap (exclude home scrap):					
999811	Iron and steel.....	...do.....	268.8	12.8	233.1	8.6
999812	Copper and copper-base alloy.....	...do.....	19.3	14.2	19.0	12.3
	Castings (rough and semifinished): ²					
332011	Iron (gray and malleable).....	...do.....	139.4	72.3	165.1	60.4
332045	Steel.....	...do.....	57.4	69.0	56.8	60.3
336100	Aluminum and aluminum-base alloy.....	Million lb....	15.4	14.5	7.3	7.8
336200	Copper and copper-base alloy.....	...do.....	45.9	43.0	37.5	35.1
346200	Iron and steel forgings ³	1,000 s. tons.	49.2	41.1	55.8	38.3
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	412.4	(X)	282.1
976000	Materials, parts, containers, etc., n.s.k. ¹		(X)	109.8	(X)	85.4

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3495.--WIRE SPRINGS			
	Materials, parts, containers, and supplies, total.....		(X)	249.9
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	6.4	1.5
331012	Sheet and strip.....	do.....	119.5	28.7
331015	Structural shapes.....	do.....	(4)	(4)
331017	Wire and wire products.....	do.....	457.7	134.7
331019	All other carbon steel mill shapes and forms.....	do.....	472.4	414.6
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	do.....	9.2	3.3
331029	All other alloy steel mill shapes and forms.....	do.....	6.7	4.5
	Stainless steel:			
331033	Sheet and strip.....	do.....	1.6	2.9
331050	All other.....	do.....	3.6	7.0
	Copper and copper-base alloy mill shapes and forms:			
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	1.1	1.9
335143	Plate, sheet, and strip (including military cups and discs)...	do.....	.4	.4
335152	Pipe and tube.....	do.....	(Z)	(Z)
	Aluminum and aluminum-base alloy mill shapes and forms:			
335301	Sheet, plate, and foil.....	do.....	.1	.1
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	do.....	-	-
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing etc.).....	do.....	.1	.1
332045	Steel castings (rough and semifinished): ⁵	1,000 s. tons.....		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	31.0
976000	Materials, parts, containers, etc., n.s.k. ¹		(X)	19.2
	INDUSTRY 3496.--MISCELLANEOUS FABRICATED WIRE PRODUCTS			
	Materials, parts, containers, and supplies, total.....		(X)	410.2
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	27.5	6.1
331012	Sheet and strip.....	do.....	39.1	9.1
331015	Structural shapes.....	do.....	15.7	3.6
331017	Wire and wire products.....	do.....	531.0	124.1
331019	All other carbon steel mill shapes and forms.....	do.....	54.6	12.8
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	do.....	2.8	.9
331029	All other alloy steel mill shapes and forms.....	do.....	3.7	1.9
	Stainless steel:			
331033	Sheet and strip.....	do.....	.9	1.4
331050	All other.....	do.....	5.2	11.4
	Copper and copper-base alloy mill shapes and forms:			
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	14.3	14.7
335143	Plate, sheet, and strip, including military cups and discs....	do.....	1.3	1.3
335152	Pipe and tube.....	do.....	(NA)	.7
	Aluminum and aluminum-base alloy mill shapes and forms:			
335301	Sheet, plate, and foil.....	do.....	1.2	.6
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	do.....	1.3	.6
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing etc.).....	do.....	18.7	10.5
332045	Steel castings, (rough and semifinished) ⁵	1,000 s. tons.....	3.8	2.1
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	122.3
976000	Materials, parts, containers, etc., n.s.k. ¹		(X)	86.1

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967			
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)		
	INDUSTRY 3497.--METAL FOIL AND LEAF							
	Materials, parts, and supplies, total.....		(X)	186.6	(X)	152.6		
	Aluminum and aluminum-base alloy mill shapes and forms:							
335335	Plain foil.....	Million lb...	223.9	95.2	35.0	20.4		
335303	Sheet and plate.....	...do.....			40.2	13.8		
335008	All other aluminum mill shapes and forms (wire rolled rod and bar, powder, welded tubing, extruded shapes, etc.).....	...do.....						
349702	Aluminum foil, converted (quantity represents metal content) ⁶...	...do.....	6.5	5.3	(X)	114.4	
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	81.3				
976000	Materials, parts, and supplies, n.s.k. ¹		(X)	4.8	(X)	4.0		
	INDUSTRY 3498.--FABRICATED PIPE AND FITTINGS							
	Materials, parts, and supplies, total.....		(X)	302.1	(X)	239.1		
	Mill shapes and forms, except castings:							
	Carbon steel:							
331011	Bars and bar shapes.....	1,000 s. tons.	42.5	8.1	9.9	2.2		
331012	Sheet and strip.....	...do.....	66.6	12.9	17.4	2.9		
331013	Plates.....	...do.....	21.1	4.3	19.3	3.6		
331015	Structural shapes.....	...do.....	14.9	3.1	(⁷)	(⁷)		
331017	Wire and wire products.....	...do.....	281.2	77.9	1.0	.5		
331019	All other carbon steel mill shapes and forms.....	...do.....			⁷ 137.2	² 29.1		
	Alloy steel, except stainless:							
331021	Bars and bar shapes.....	...do.....	1.3	.9	5.2	3.0		
331029	All other alloy steel mill shapes and forms.....	...do.....	17.8	14.7	9.6	6.8		
	Stainless steel:							
331033	Sheet and strip.....	...do.....	2.9	3.2	3.4	6.3		
331050	All other.....	...do.....	8.2	15.2				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.1	.1	.2	.2		
	Copper and copper-base alloy:							
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	2.0	1.4	1.5	1.1		
335143	Plate, sheet, and strip, including military cups and discs....	...do.....			(D)	(D)		
335152	Pipe and tube.....	...do.....						
	Aluminum and aluminum-base alloys:							
335301	Sheet, plate, and foil.....	...do.....	.2	.1	7.0	4.4		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	5.7	4.6				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....						
	Castings (rough and semifinished): ⁹							
332011	Iron (gray and malleable).....	1,000 s. tons.	2.5	1.0	9.0	3.8		
332045	Steel.....	...do.....	(D)	(D)	(NA)	5.0		
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(D)	(D)		
336200	Copper and copper-base alloy.....	...do.....	1.1	.9	(D)	(D)		
346200	Iron and steel forgings ⁹	1,000 s. tons.	3.4	3.1	6.2	3.6		
346310	Aluminum and aluminum-base alloy forgings ⁹	Million lb....	(D)	(D)	.1	.1		
349401	Valves and pipe fittings, except plumbers' brass goods and fittings.....		(X)	25.7	(X)	22.9		
333010	Nonferrous plating metals (chromium, nickel, zinc, etc.).....		(X)	.2	(X)	.5		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	56.9	(X)	¹⁰ 93.6		
976000	Materials, parts, and supplies, n.s.k. ¹		(X)	52.6	(X)	49.5		

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3499.--FABRICATED METAL PRODUCTS, N.E.C.					
	Materials, parts, supplies, etc., total.....		(X)	772.6	(X)	455.1
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	109.5	23.6	11838.7	1146.6
331012	Sheet and strip.....	..do.....	711.6	141.2		
331013	Plates.....	..do.....	54.3	11.2		
331015	Structural shapes.....	..do.....	41.3	9.7		
331017	Wire and wire products.....	..do.....	31.3	7.2		
331019	All other carbon steel mill shapes and forms.....	..do.....	133.5	32.1		
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	5.9	3.6		
331029	All other alloy steel mill shapes and forms.....	..do.....	24.8	12.9		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	9.5	10.7		
331050	All other.....	..do.....	3.4	5.6		
	Copper and copper-base alloy:					
335790	Insulated wire and cable.....	Mill. lb. (cop- per content).	(Z)	(Z)	1.9	1.4
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	3.7	2.5	1.3	.9
335143	Plate, sheet, and strip, including military cups and discs...	..do.....	4.5	3.9	4.1	3.0
335152	Pipe and tube.....	..do.....	1.4	1.4	(D)	(D)
	Aluminum and aluminum-base alloys:					
335301	Sheet, plate, and foil.....	..do.....	116.7	43.2	77.4	38.5
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.....	..do.....	40.7	16.5		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	7.8	3.8		
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.	2.8	2.3	10.4	7.4
	Castings (rough and semifinished): ⁹					
332011	Iron (gray and malleable).....	..do.....	8.5	5.7	10.8	4.8
332045	Steel.....	..do.....	5.5	4.8	16.5	11.2
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.2	2.1	3.2	3.0
336200	Copper and copper-base alloy.....	..do.....	1.0	1.5	1.8	1.3
346200	Iron and steel forgings ²	1,000 s. tons.	2.5	2.3	1.9	1.3
346310	Aluminum and aluminum-base alloy forgings ⁹	Million lb....	.8	.9	1.3	1.4
349401	Valves and pipe fittings, except plumbers' brass goods and fittings.....	.....	(X)	.6	(X)	.7
333010	Nonferrous plating metals (chromium, nickel, zinc, etc.).....	.....	(X)	3.7	(X)	3.1
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	231.5	(X)	10172.6
976000	Materials, containers, supplies, n.s.k. ¹.....	.....	(X)	188.0	(X)	57.9

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than half the unit of measurement shown.

¹This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

²The figures for castings produced and consumed in the same establishment are iron castings, 176.2 thousand short tons in 1972 and 229.7 thousand short tons in 1967; steel castings, 11.7 thousand short tons in 1972 and 9.9 thousand short tons in 1967; copper and copper-base alloy castings, 107.9 million pounds in 1972 and 119.6 million pounds in 1967. Data for aluminum and aluminum-base alloy castings are not available.

³In 1972, the figure for iron and steel forgings produced and consumed in the same establishment was 32.6 thousand short tons, and 20.5 thousand short tons in 1967.

⁴Data for code 331015, Carbon steel structural shapes, have been combined with code 331019, All other carbon steel mill shapes and forms, in order to avoid disclosing figures for individual companies.

⁵Excludes quantities produced and consumed in the same establishment.

⁶Data on total consumption of aluminum foil are available, by end-use, in Current Industrial Reports, series MA-34P, "Aluminum Foil Converted." The data in the current industrial report include consumption by all establishments such as foil mills, foil converters, and others, including food processing and other establishments converting foil for purposes of packaging a product. Data in this report are limited to establishments classified in the metal foil and leaf industry.

⁷Included with material code 331019, "All other carbon steel mill shapes and forms."

⁸These figures are understated by \$45 million or less because of apparent undercoverage of carbon steel pipe and tube.

⁹No data are available on the quantities of castings or forgings produced and consumed in the same establishment.

¹⁰Includes cost for materials indicated by the symbol (D).

¹¹These figures are understated by \$10 million or less because of apparent undercoverage of carbon steel pipe and tube.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3493.--STEEL SPRINGS, EXCEPT WIRE					
	Purchased fuels and electric energy.....		(X)	4.7	(X)	(NA)
	Purchased fuels, total.....		(X)	2.8	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	4.4	(Z)	(NA)	(NA)
291141	Distillate.....	..do.....	4.4	(Z)	(NA)	(NA)
291151	Residual.....	..do.....	-	-	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	3.2	2.1	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.7	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	136.7	1.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.4	-	(NA)	(NA)
	INDUSTRY 3494.--VALVES AND PIPE FITTINGS					
	Purchased fuels and electric energy.....		(X)	32.3	(X)	23.0
	Purchased fuels, total.....		(X)	12.9	(X)	9.9
121005	Coal.....	1,000 s. tons.....	37.3	.4	91.6	.7
331212	Coke.....	..do.....	(S)	1.8	45.8	1.6
	Fuel oil, total.....	1,000 bbl (42 gal)	387.2	1.8	384.8	1.3
291141	Distillate.....	..do.....	237.5	1.1	205.9	.8
291151	Residual.....	..do.....	149.7	.7	164.6	.5
131300	Natural gas.....	Billion ft ³	14.9	6.9	7.5	4.0
960011	Other fuels.....		(X)	.4	(X)	.4
975000	Fuels, n.s.k.....		(X)	1.7	(X)	1.9
960012	Purchased electric energy.....	Million kWh.....	1,591.8	19.4	997.6	13.1
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	3.9	-
	Total energy used for heat and power.....	Bil. kWh equiv....	8.7	-	6.0	-
	INDUSTRY 3495.--WIRE SPRINGS and INDUSTRY 3496.--MISCELLANEOUS FABRICATED WIRE PRODUCTS'					
	Purchased fuels and electric energy.....		(X)	14.3	(X)	15.6
	Purchased fuels, total.....		(X)	5.0	(X)	6.2
121005	Coal.....	1,000 s. tons.....	.9	(Z)	14.4	.1
331212	Coke.....	..do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	207.4	.8	221.5	.7
291141	Distillate.....	..do.....	88.9	.4	74.0	.3
291151	Residual.....	..do.....	118.5	.4	147.5	.4
131300	Natural gas.....	Billion ft ³	5.2	2.9	2.8	1.9
960011	Other fuels.....		(X)	.3	(X)	.2
975000	Fuels, n.s.k.....		(X)	1.0	(X)	3.3
960012	Purchased electric energy.....	Million kWh.....	616.3	9.3	451.7	9.4
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.9	-	2.3	-
	INDUSTRY 3497.--METAL FOIL AND LEAF					
	Purchased fuels and electric energy.....		(X)	3.4	(X)	(NA)
	Purchased fuels, total.....		(X)	1.1	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	42.9	.2	(NA)	(NA)
291141	Distillate.....	..do.....	20.7	.1	(NA)	(NA)
291151	Residual.....	..do.....	22.2	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft ³.....	.9	.6	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	200.4	2.3	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.7	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represent zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.
(Z) Less than half of the unit of measurement shown.

APPENDIX A. Explanation of Terms

Employment and Payrolls—The census of manufactures provides information on employment and payrolls at operating establishments and central administrative offices and auxiliaries. On the standard forms for manufacturing establishments, the number of production workers by quarter and all other employees during the pay period including March 12 was requested. Form NC-X6, "Central Administrative Office or Auxiliary Establishment," called for employment as of March 12 only. Both forms called for salaries and wages paid for the year.

All Employees—This category comprises all full-time and part-time employees who worked or received pay for any part of the pay periods including the 12th of the months specified on the report forms. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms, however, are excluded.

In special cases, respondents were instructed to exclude agricultural or fishery employment and related data from their reports. These were sugar mills operated as part of plantations, canning or freezing plants operated in conjunction with farms, and fish processing plants engaged in fishing.

Production and Related Workers—This category includes workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level were excluded from this category.

All Other Employees—These are defined as nonproduction personnel, including employees engaged in the following activities: Factory supervision above the working foreman level, sales (including driver-salesmen), sales delivery (highway truckdrivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

Average Employment—The number of production workers as shown in the census tabulations is an average of the four quarterly figures reported by manufacturing plants. The "all employees" figure is the sum of this average and the reported number of other employees as of March 12.

Payrolls—This category includes the gross annual earnings of employees on the payroll. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. This definition includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll.

The 1972 census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. This definition does not include supplementary labor costs such as employer's Social Security contributions and other legally required expenditures or payments for voluntary programs. Data on such supplementary labor costs were collected in the ASM and are scheduled for publication in the ASM reports, but are not included in the census reports.

Man-Hours—This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours at the plant including actual overtime hours—not straight-time equivalent hours. It excludes hours paid for vacations, holidays, or sick leave, when the employee was not actually at the plant. Where employees elected to work during the vacation period, the actual hours worked by such employees were reported.

Cost of Materials, Etc., Consumed—A summary inquiry on form MA-100 and the other manufacturing establishment report forms requested information on the cost of materials, supplies, semifinished goods, fuels, and electric energy actually consumed or put into production during the year and the cost of products purchased for resale, whether purchased, withdrawn from inventories, or received from other establishments of the company. Included, also, are the costs of materials supplied by the establishment which were processed elsewhere on contract for the establishment. "Cost" was defined as the direct charges actually paid or payable for items consumed or

put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring the materials.

To arrive at the industry total "cost of materials, etc.,"¹ separate figures were obtained for (a) the total delivered cost of all raw materials, semifinished goods, parts, components, containers, scrap, and supplies consumed or put into production, (b) the amount paid for electric energy purchased, (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity, (d) the cost of work done by others on materials or parts furnished by the reporting establishment (contract work), and (e) the cost of products bought and resold in the same condition.

It should be noted that the cost of fuel consumed under (c), above, does not include fuel used as a material in the manufacturing process; for example, coal used in the production of coke. Such costs are included with other materials cost in category (a), above.

The total excludes the cost of services used, such as advertising, insurance, telephone, etc., and developmental, research, and consulting services of other establishments. It also excludes overhead costs, such as depreciation charges, rent, interest, royalties, etc., and materials, machinery, and equipment used in plant expansion or capitalized repairs which are chargeable to fixed assets accounts.

For materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), respondents were asked to value the items at their full economic value as produced, plus freight and other direct handling charges. The respondents were asked to check, where possible, that the cost equaled the value of shipments reported for the items by the company's plant which produced and transferred the goods, plus freight and other direct charges.

Value of Shipments—Except in a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. For a few industries, specifically noted in the text of the industry chapters, Volume II, delivered prices were requested if delivery by employees of the establishment was a routine practice, as in the milk and bakery industries.

For most industries, value of shipments is readily available from accounting records and is closely related to the value of production. In a small group of industries, however, value of production or of work done was requested. This instruction was of particular importance in the aircraft and shipbuilding industries, where the shipments or deliveries of complete units

may be a poor approximation of the work actually done during a given year.

Manufacturers were asked to include as products shipped not only the products made in the establishment but also those made elsewhere under contract from the materials owned by the establishment. Included were all products sold, transferred to other parts of the same company, or shipped on consignment. The duplication in value of shipments and cost of materials arising because of the shipment of semifinished products among manufacturing plants is discussed in part III of the Introduction, which also includes comments on the valuation of intracompany shipments by multiunit firms.

Miscellaneous Receipts—In addition, manufacturers reported receipts for contract work performed for others, resales (that is, the value of all products resold without further processing), receipts for miscellaneous activities such as sale of scrap and refuse, and the value of installation and repair work performed by the plant employees. Although the value of products bought and resold without further processing is included in the value of shipments totals for each industry, it is excluded from the figures for individual products or classes of products.

Value Added by Manufacture—This figure is derived by subtracting the total cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and contract work done by others) from the value of shipments, including resales, and other receipts and adjusting the resulting amount by the net change in finished products and work-in-process inventories between the beginning and end of the year.²

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components along with the shipments of establishments producing finished products. It is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Inventories—The value of beginning-of-year and end-of-year inventories held by each manufacturing establishment was obtained in the 1972 census. Separate inventory figures were requested for (1) finished products, (2) work in process, and (3) materials, supplies, fuel, and other inventories.

Respondents were asked to report their inventories at approximate current costs, if feasible; otherwise, at book value. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the value of inventories aggregated for all

¹In some tables, this category is designated simply as "cost of materials."

²For a few industries (for example, aircraft and shipbuilding) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

establishments in an industry is not precisely defined. The importance of reporting inventories on a comparable basis was emphasized in the instructions; thus the year-to-year change in inventories indicated by the census figures is of more significance than their level.

In using inventory data by stage of fabrication for all industries and at the 2-digit industry level, it should be noted that an item treated as a finished product by one establishment may be reported as a material by another establishment. For example, the finished product inventories of a steel mill would be reported as materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication for individual industries, industry groups, and all manufacturing, since these figures are merely aggregates of the figures reported by establishments.

Multiunit companies were instructed to include the inventories held by each establishment in that establishment's report. The inventory data tabulated on a geographic basis are believed, therefore, to reflect the actual physical holdings in each area, to the extent that the inventories were owned by the reporting companies. It is not clear where goods owned by one company and stored by another were reported.

Special instructions on inventories were issued for two industries in the food group. Meatpacking establishments were told to report work in process separately only if separate records were maintained; otherwise, to combine work in process with finished products. Distillers were instructed to include stocks of liquors held for aging as finished products, not as work in process.

Capital Expenditures—Under this heading, manufacturers were instructed to report expenditures of the type chargeable to fixed assets accounts for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year. It was suggested to the respondents that capital expenditures, as thus defined, could be computed by the following formula: The cost of additions completed during the year, plus construction in progress at the end of the year, less construction in progress at the beginning of the year. It was specified that the census definition of capital expenditures was to be used in computing the gross value of fixed assets discussed below.

Capital expenditures include the cost of plant and equipment for replacement purposes, as well as for additions to productive capacity. Cost associated with plants under construction but not in operation during the year are also included. The method of collecting data for plants under construction is described in the Introduction, section 7, "Reporting Forms." Capital expenditures do not include plant

and equipment furnished to the manufacturer without charge by governmental or private organizations. The value of rented facilities is also excluded.

New Structures and Additions to Plant—This category includes all construction and other land improvements, whether built on contract or by the manufacturer's own labor force. Included are major alterations; capitalized repairs; new elevators, cranes, heating and air-conditioning equipment essentially a part of buildings; fixed structures such as blast furnaces, brick kilns, fractionating towers, and shipways; and land improvements such as roads, fences, parking lots, and railroad spurs.

New Machinery and New Equipment—This category includes production and all other machinery and equipment. Included are motors, lathes, presses, looms, and other production machinery; office machines and fixtures; furniture; and automobiles, trucks, and handling equipment. Major repairs or improvement to existing equipment are included if the cost is capitalized, as well as equipment manufactured by the plant for use in its own production.

Used Plant and Equipment—This category represents expenditures for old or existing plants and for secondhand equipment acquired from others. Transfers of used equipment between plants of multiunit companies are included. The companies were instructed to report such transfers at their current value rather than original cost. The Census Bureau estimates of capital expenditures as compared to those published in the joint Bureau of Economic Analysis—Securities and Exchange Commission survey are discussed in the Introduction.

Fuels and Electric Energy—Separate data were collected in the census for coal, coke, fuel oil, gas, and other fuels used for heat and power; purchased electric energy, electric energy generated by manufacturing establishments; and energy generated less the amount sold. Fuels used as a raw material (as coal in the production of coke) are included in the cost of materials rather than in the fuel category.

Assets and Rents—Data on the gross value of fixed assets owned and rental payments for leased fixed assets were collected in the ASM. These figures are scheduled for publication in the ASM series, but are not included in the census volumes.³

³ Earlier reports on these topics include chapter 9 of volume I, Summary Statistics, in the 1958 census, and chapter 7 of the ASM volumes for 1964-1965, 1968-1969, and 1970-1971.

APPENDIX B Composition of Industries in the 1972 Standard Industrial Classification

The censuses of manufactures for 1972 and 1967 covered all establishments engaged in manufacture as defined, respectively, in the **Standard Industrial Classification Manual (SIC)**, 1972 edition, issued by the Office of Management and Budget. The 1972 edition contained major revisions in the SIC Manual for the manufacturing industries additional to those issued between 1957 and 1967.

For 1972, of the 422 manufacturing industries as defined in 1967, 121 were changed in some manner in 1972. This

appendix cites only those industries affected by a revision between 1967 and 1972. Presented in two parts, this appendix lists, in part 1A, the industries as defined for 1972 in terms of their 1967 equivalents and, in part 2A, the industries of 1967 in terms of their 1972 equivalents. The distribution of the 1972 SIC industries among the 1967 SIC industries is shown in part 1B. The distribution of the 1967 SIC industries among the 1972 SIC industries is shown in part 2B.

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2011	Meatpacking plants (excludes slaughter of nonfood animals; excludes canned baby food meats)	2011 pt.	Meatpacking plants.
2013	Sausages and other prepared meats (excludes canned baby food meats)	2013 pt.	Sausages and other prepared meats.
2016	Poultry dressing plants	2015	Poultry dressing plants.
2017	Poultry and egg processing		
2032	Canned specialties:		
	Baby food meats	{ 2011 pt.	Meatpacking plants.
	Except baby food meats	{ 2013	Sausage and other prepared meats.
2037	Frozen fruits and vegetables	2032	Canned specialties.
2038	Frozen specialties	2037	Frozen fruits and vegetables.
2047	Dog, cat, and other pet food:		
	From nonfood animals slaughtered in the same plant	2011 pt.	Meatpacking plants.
	Other	2042 pt.	Prepared feeds for animals and fowls.
2048	Prepared feeds, n.e.c. (excludes pet food)	2042 pt.	Prepared feeds for animals and fowls.
2065	Confectionery products ¹	2071	Confectionery products.
2066	Chocolate and cocoa products ¹	2072	Chocolate and cocoa products.
2067	Chewing gum	2073	Chewing gum.
2074	Cottonseed oil mills ¹	2091	Cottonseed oil mills.
2075	Soybean oil mills ¹	2092	Soybean oil mills.
2076	Vegetable oil mills, n.e.c. ¹	2093	Vegetable oil mills, n.e.c.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2077	Animal and marine fats and oils ¹	2094	Animal and marine fats and oils.
2079	Shortening and cooking oils ¹	2096	Shortening and cooking oils.
2091	Canned and cured seafoods ¹	2031	Canned and cured seafoods.
2092	Fresh or frozen packaged fish ¹	2036	Fresh or frozen packaged fish.
2257	Circular knit fabric mills	2256	Knit fabric mills.
2258	Warp knit fabric mills		
2297	Nonwoven fabrics	2299 pt.	Textile goods, n.e.c.
2299	Textile goods, n.e.c.:		
	Scouring and combing	2297	Scouring and combing plants.
	Except nonwoven fabrics	2299 pt.	Textile goods, n.e.c.
2426	Hardwood dimension and flooring:		
	Except wood furniture frames	2426	Hardwood dimension and flooring.
	Wood furniture frames	2512 pt.	Upholstered household furniture.
2431	Millwork (excludes kitchen cabinets to be built-in)	2431 pt.	Millwork.
2434	Wood kitchen cabinets:		
	To be built-in	2431 pt.	Millwork.
	Other	2511 pt.	Wood household furniture.
2435	Hardwood veneer and plywood	2432	Veneer and plywood.
2436	Softwood veneer and plywood		
2439	Structural wood members, n.e.c.	2433 pt.	Prefabricated wood structures.
2448	Wood pallets and skids	2499 pt.	Wood products, n.e.c.
2449	Wood containers, n.e.c.	2442	Wirebound boxes and crates.
		2443	Veneer and plywood containers.
		2445	Cooperage.
2451	Mobile homes	3791 pt.	Trailer coaches.
2452	Prefabricated wood buildings	2433 pt.	Prefabricated wood structures.
2492	Particleboard	2499 pt.	Wood products, n.e.c.
2499	Wood products, n.e.c. (excludes pallets, skids, and particleboard)		
2511	Wood household furniture (excludes television, radio, phonograph and sewing machine cabinets and kitchen cabinets)	2511 pt.	Wood household furniture.
2512	Upholstered household furniture (excludes wood furniture frames)	2512 pt.	Upholstered household furniture.
2517	Wood TV and radio cabinets	2511 pt.	Wood household furniture.
2648	Stationery products	2649 pt.	Converted paper products, n.e.c.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2649	Converted paper products, n.e.c.:		
	Wallpaper	2644	Wallpaper.
	Other (excludes stationery and related items) . . .	2649 pt.	Converted paper products, n.e.c.
2751	Commercial printing, letterpress	2751 pt.	Commercial printing, except lithographic.
2752	Commercial printing, lithographic (excludes lithographic plates)	2752 pt.	Commercial printing, lithographic.
2754	Commercial printing, gravure	2751 pt.	Commercial printing, except lithographic.
2795	Lithographic platemaking services	2752 pt.	Commercial printing, lithographic.
2819	Industrial inorganic chemicals, n.e.c.:		
	Sulfur extracted from sour gas	1311 pt.	Crude petroleum and natural gas.
	Industrial inorganic chemicals (excludes phosphoric acid and diammonium phosphate; household bleaches; nitric acid; anhydrous ammonia and other nitrogenous fertilizer materials)	2819 pt.	Industrial inorganic chemicals, n.e.c.
2821	Plastics materials and resins (excludes adhesives; custom compounding of resins; and sheets, rods, and similar basic forms)	2821 pt.	Plastics materials and resins.
2842	Polishes and sanitation goods:		
	Household bleaches	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Except household bleaches (excludes pesticidal preparations)	2842 pt.	Polishes and sanitation goods.
2851	Paints and allied products (excludes calking compounds)	2851 pt.	Paints and allied products.
2865	Cyclic crudes and intermediates ¹	2815	Cyclic intermediates and crudes.
2869	Industrial organic chemicals, n.e.c. (excludes urea)	2818 pt.	Industrial organic chemicals, n.e.c.
2873	Nitrogenous fertilizers:		
	Urea	2818 pt.	Industrial organic chemicals, n.e.c.
	Anhydrous ammonia, nitric acid, and other nitrogenous fertilizer materials	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Natural organic fertilizers except compost	2871 pt.	Fertilizers.
2874	Phosphatic fertilizers:		
	Phosphoric acid and diammonium phosphate . . .	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Except phosphoric acid, etc	2871 pt.	Fertilizers.
2875	Fertilizers, mixing only ¹	2872	Fertilizers, mixing only.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2879	Agricultural chemicals, n.e.c.:		
	Household pesticidal preparations	2842 pt.	Polishes and sanitation goods.
	Except household pesticidal preparations	2879	Agricultural chemicals, n.e.c.
2891	Adhesives and sealants:		
	Adhesives from plastics resins produced in the same establishment	2821 pt.	Plastics materials and resins.
	Calking compounds	2851 pt.	Paints and allied products.
	Adhesives	2891 pt.	Adhesives and gelatin.
	Sealants, n.e.c.	2899 pt.	Chemical preparations, n.e.c.
	Linoleum and tile cement	2952 pt.	Asphalt felts and coatings.
	Rubber cement	3069 pt.	Fabricated rubber products, n.e.c.
2899	Chemical preparations, n.e.c.:		
	Gelatin and sizes	2891 pt.	Adhesives and gelatin.
	Except gelatin and sizes (excludes sealants)	2899 pt.	Chemical preparations, n.e.c.
2911	Petroleum refining (excludes rerefining of oils and greases)	2911 pt.	Petroleum refining.
2952	Asphalt felts and coatings (excludes linoleum and tile cement)	2952 pt.	Asphalt felts and coatings.
2992	Lubricating oils and greases:		
	Rerefining of oils and greases	2911 pt.	Petroleum refining.
	Other	2992	Lubricating oils and greases.
3021	Rubber and plastics footwear:		
	Rubber	3021	Rubber footwear.
	Plastics	3079 pt.	Miscellaneous plastics products.
3041	Rubber and plastics hose and belting:		
	Rubber	3069 pt.	Fabricated rubber products, n.e.c.
	Plastics	3079 pt.	Miscellaneous plastics products.
3069	Fabricated rubber products, n.e.c. (excludes rubber cement, rubber packing and rubber hose and belting)	3069 pt.	Fabricated rubber products, n.e.c.
3079	Miscellaneous plastics products:		
	Rod, sheet, etc., from resins produced in the same plant; custom compounding of purchased resins; regenerated cellulosic products, except rayon	2821 pt.	Plastics materials and resins.
	Miscellaneous plastics products (excludes plastics footwear and plastics hose and belting)	3079 pt.	Miscellaneous plastics products.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3143	Men's footwear, except athletic	3141	Shoes, except rubber.
3144	Women's footwear, except athletic		
3149	Footwear, except rubber, n.e.c.		
3199	Leather goods, n.e.c.:		
	Belting (excludes leather packing)	3121 pt.	Industrial leather belting.
	Except belting	3199	Leather goods, n.e.c.
3292	Asbestos products:		
	Asbestos products	3292	Asbestos products.
	Asbestos insulation	3293 pt.	Gaskets and insulations.
3293	Gaskets, packing and sealing devices:		
	Rubber packing	3069 pt.	Fabricated rubber products, n.e.c.
	Leather packing	3121 pt.	Industrial leather belting.
	Gaskets, all materials, and packing, n.e.c.	3293 pt.	Gaskets and insulations.
	Metal packing	3599 pt.	Miscellaneous machinery, except electrical.
3295	Minerals, ground or treated ²	3295	Minerals, ground or treated.
3324	Steel investment foundries	3323	Steel foundries.
3325	Steel foundries, n.e.c.		
3353	Aluminum sheet, plate, and foil		
3354	Aluminum extruded products	3352	Aluminum rolling and drawing.
3355	Aluminum rolling and drawing, n.e.c.		
3398	Metal heat treating		
3399	Primarily metal products, n.e.c.	3399	Primary metal products, n.e.c.
3412	Metal barrels, drums, and pails ¹	3491	Metal barrels, drums, and pails.
3433	Heating equipment, except electric (excludes warm air furnaces)	3433 pt.	Heating equipment, except electric.
3448	Prefabricated metal buildings	3449	Miscellaneous metalwork.
3449	Miscellaneous metalwork		
3462	Iron and steel forgings ¹		
3463	Nonferrous forgings ¹	3391	Iron and steel forgings.
3465	Automotive stampings	3392	Nonferrous forgings.
3466	Crowns and closures	3461	Metal stampings.
3469	Metal stampings, n.e.c.		
3482	Small arms ammunition ¹		
3483	Ammunition, except for small arms, n.e.c. ¹	1961	Small arms ammunition.
3484	Small arms ¹	1929	Ammunition, except for small arms, n.e.c.
		1951	Small arms.
3489	Ordnance and accessories, n.e.c.	1911	Guns, howitzers, and mortars.
		1999	Ordnance and accessories, n.e.c.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3495	Wire springs	3481	Miscellaneous fabricated wire products.
3496	Miscellaneous fabricated wire products		
3499	Fabricated metal products, n.e.c.	3492	Safes and vaults.
		3496	Collapsible tubes.
		3499	Fabricated metal products, n.e.c.
3523	Farm machinery and equipment: Except garden tractors and lawn and garden equipment	3522 pt.	Farm machinery.
	Farm trailers and wagons	3799 pt.	Transportation equipment, n.e.c.
3524	Lawn and garden equipment	3522 pt.	Farm machinery.
3531	Construction machinery: Except well point systems	3531	Construction machinery.
	Well point systems		
3533	Oilfield machinery (excludes well point systems)	3533 pt.	Oilfield machinery.
3536	Hoists, cranes, and monorails: Except automatic stacking machines	3536	Hoists, cranes, and monorails.
	Automatic stacking machines		
3537	Industrial trucks and tractors (excludes auto- matic stacking machines)	3537 pt.	Industrial trucks and tractors.
3541	Machine tools, metal cutting types: Machine tools	3541	Machine tools, metal cutting types.
	Auto maintenance equipment, metal cutting types	3548 pt.	Metalworking machinery, n.e.c.
3546	Power driven handtools	3548 pt.	Metalworking machinery, n.e.c.
3547	Rolling mill machinery		
3549	Metalworking machinery, n.e.c. (excludes auto maintenance equipment, metal cutting types)		
3561	Pumps and pumping equipment	3561 pt.	Pumps and compressors.
3562	Ball and roller bearings: Bearings and parts	3562	Ball and roller bearings.
	Mounted bearings	3566 pt.	Power transmission equipment.
3563	Air and gas compressors	3561 pt.	Pumps and compressors.
3566	Speed changers, drives, and gears	3566 pt.	Power transmission equipment.
3568	Power transmission equipment, n.e.c. (excludes mounted ball and roller bearings)		

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3574	Calculating and accounting machines (excludes voting machines and ticket counting machines) . . .	3574 pt.	Calculating and accounting machines.
3579	Office machines, n.e.c.:		
	Voting machines and ticket counting machines . .	3574 pt.	Calculating and accounting machines.
	Except voting machines and ticket counting machines	3579	Office machines, n.e.c.
3582	Commercial laundry equipment (excludes coin-operated washers and dryers)	3582 pt.	Commercial laundry equipment.
3585	Refrigeration and heating equipment:		
	Warm air heating equipment	3433 pt.	Heating equipment, except electric.
	Except warm air heating equipment	3585	Refrigeration machinery.
3592	Carburetors, pistons, rings, valves	3599 pt.	Miscellaneous machinery, except electrical.
3599	Machinery, except electrical, n.e.c. (excludes packing, carburetors, pistons, rings, and valves) . .		
3612	Transformers:		
	Instrument transformers	3611 pt.	Electric measuring instruments.
	Except instrument transformers	3612	Transformers.
3633	Household laundry equipment:		
	Coin-operated washers and dryers	3582 pt.	Commercial laundry equipment.
	Except coin-operated washers, etc.	3633	Household laundry equipment.
3645	Residential lighting fixtures	3642	Lighting fixtures.
3646	Commercial lighting fixtures		
3647	Vehicular lighting equipment		
3648	Lighting equipment, n.e.c.		
3662	Radio and TV communication equipment:		
	Sighting and fire control equipment, electronic . .	1941 pt.	Sighting and fire control equipment.
	Except sighting and fire control equipment, electronic	3662	Radio and TV communication equipment.
3675	Electronic capacitors	3679	Electronic components, n.e.c.
3676	Electronic resistors		
3677	Electronic coils and transformers		
3678	Electronic connectors		
3679	Electronic components, n.e.c.		
3711	Motor vehicles and car bodies	3711	Motor vehicles.
		3712	Passenger car bodies.
3713	Truck and bus bodies (excludes demountable cargo containers)	3713 pt.	Truck and bus bodies.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3715	Truck trailers:		
	Demountable cargo containers	3713 pt.	Truck and bus bodies.
	Truck trailers	3715	Truck trailers.
3724	Aircraft engines and engine parts	3722 pt.	Aircraft engines and engine parts.
3728	Aircraft equipment, n.e.c.:		
	Propellers and parts	3723	Aircraft propellers and parts.
	Except propellers and parts (excludes space vehicle equipment)	3729 pt.	Aircraft equipment, n.e.c.
3743	Railroad equipment	{ 3741	Locomotives and parts.
		3742	Railroad and street cars.
3751	Motorcycles, bicycles, and parts (excludes golf carts and other similar personnel carriers)	3751 pt.	Motorcycles, bicycles, and parts.
3761	Guided missiles and space vehicles ¹	1925	Complete guided missiles.
3764	Space propulsion units and parts	3722 pt.	Aircraft engines and engine parts.
3769	Space vehicle equipment, n.e.c.	3729 pt.	Aircraft equipment, n.e.c.
3792	Travel trailers and campers:		
	Except folding tent trailers (excludes mobile homes)	3791 pt.	Trailer coaches.
	Folding tent trailers	3799 pt.	Transportation equipment, n.e.c.
3795	Tanks and tank components ²	1931	Tanks and tank components.
3799	Transportation equipment, n.e.c.:		
	Golf carts and other similar personnel carriers	3751 pt.	Motorcycles, bicycles, and parts.
	Transportation equipment, n.e.c. (excludes farm trailers and wagons and folding tent trailers)	3799 pt.	Transportation equipment, n.e.c.
3823	Process control instruments	3821 pt.	Mechanical measuring devices.
3824	Fluid meters and counting devices		
3825	Instruments to measure electricity (excludes instrument transformers)	3611 pt.	Electric measuring instruments.
3829	Measuring and controlling devices, n.e.c.	3821 pt.	Mechanical measuring devices.
3832	Optical instruments and lenses:		
	Made from purchased lenses (excludes electronic sighting and fire control equipment)	1941 pt.	Sighting and fire control equipment.
	From lenses made in the same plant	3831	Optical instruments and lenses.
3873	Watches, clocks, and watchcases	{ 3871	Watches and clocks.
		3872	Watchcases.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3915	Jewelers' materials and lapidary work	{ 3912 3913	Jewelers' findings and materials. Lapidary work.
3944	Games, toys, and children's vehicles	{ 3941 3943	Games and toys. Children's vehicles, except bicycles.
3951	Pens and mechanical pencils: Except felt tip markers	3951	Pens and mechanical pencils.
	Felt tip markers	3953 pt.	Marking devices.
3953	Marking devices (excludes felt tip markers)	3953 pt.	Marking devices.
3995	Burial caskets (excludes other items such as clothing, embalming fluid, and various items of equipment which are classified with similar products)	3994 pt.	Morticians' goods.

¹ No change in content.

² The classification of separate establishments milling or otherwise preparing nonmetallic minerals in this division and in industry 3295 has been clarified. Industry 3295 will include only establishments crushing or grinding or otherwise preparing minerals mined in industry groups 145 and 149, and industry 1472. Establishments crushing or grinding minerals mined in industry groups 142 and 144 and industries 1473 to 1479 are included in those same industries.

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)	(1,000)	(million dollars)
2011	----	Meatpacking plants.....	2,474	863	157.5	2,968.1
	2011	Meatpacking plants.....	2,467	858	156.4	2,948.4
	2013	Sausages and other prepared meats.....	7	5	1.1	19.7
2013	----	Sausages and other prepared meats.....	1,311	557	58.1	1,099.9
	2011	Meatpacking plants.....	5	5	.7	14.5
	2013	Sausages and other prepared meats.....	1,306	552	57.4	1,085.4
2016	----	Poultry dressing plants.....	522	369	77.6	724.4
	2015	Poultry dressing plants.....	522	369	77.6	724.4
2017	----	Poultry and egg processing.....	130	93	14.6	168.5
	2015	Poultry dressing plants.....	130	93	14.6	168.5
2021	2021	Creamery butter.....	231	63	4.0	82.3
2022	2022	Cheese, natural and processed.....	872	281	25.2	492.3
2023	2023	Condensed and evaporated milk.....	283	163	12.3	467.3
2024	2024	Ice cream and frozen desserts.....	697	273	21.1	459.8
2026	2026	Fluid milk.....	2,507	1,287	126.1	2,552.4
2032	2032	Canned specialties.....	203	88	29.1	814.6
2033	2033	Canned fruits and vegetables.....	1,038	621	89.8	1,625.1
2034	2034	Dehydrated fruits, vegetables, soups.....	178	88	12.4	235.7
2035	2035	Pickles, sauces, and salad dressings.....	495	191	20.8	428.0
2037	2037	Frozen fruits and vegetables.....	208	190	42.8	694.6
2038	----	Frozen specialties.....	435	211	38.3	716.3
	2037	Frozen fruits and vegetables.....	435	211	38.3	716.3
2041	2041	Flour and other grain mill products.....	457	181	16.1	509.8
2043	----	Cereal breakfast foods.....	47	26	12.9	688.4
	2043	Cereal preparations.....	47	26	12.9	688.4
2044	2044	Rice milling.....	57	35	4.0	148.3
2045	2045	Blended and prepared flour.....	137	57	7.9	306.8
2046	2046	Wet corn milling.....	41	27	12.1	331.2
2047	----	Dog, cat, and other pet food.....	221	113	14.3	613.8
	2042	Prepared feeds for animals and fowls.....	221	113	14.3	613.8
2048	----	Prepared feeds, n.e.c.....	2,120	654	44.0	1,100.5
	2042	Prepared feeds for animals and fowls.....	2,120	654	44.0	1,100.5
2051	2051	Bread, cake, and related products.....	3,318	1,374	193.5	3,518.1
2052	2052	Cookies and crackers.....	315	177	41.1	1,018.9
2061	2061	Raw cane sugar.....	77	62	7.1	151.7
2062	2062	Cane sugar refining.....	33	28	10.9	383.9
2063	2063	Beet sugar.....	61	54	11.5	310.5
2065	----	Confectionery products.....	1,011	394	60.7	1,115.6
	2071	Confectionery products.....	1,011	394	60.7	1,115.6
2066	----	Chocolate and cocoa products.....	48	30	10.0	282.6
	2072	Chocolate and cocoa products.....	48	30	10.0	282.6
2067	----	Chewing gum.....	19	16	6.9	228.4
	2073	Chewing gum.....	19	16	6.9	228.4
2074	----	Cottonseed oil mills.....	115	84	5.5	88.2
	2091	Cottonseed oil mills.....	115	84	5.5	88.2
2075	----	Soybean oil mills.....	94	74	9.1	350.0
	2092	Soybean oil mills.....	94	74	9.1	350.0
2076	----	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
	2093	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
2077	----	Animal and marine fats and oils.....	511	196	11.6	296.7
	2094	Animal and marine fats and oils.....	511	196	11.6	296.7
2079	----	Shortening and cooking oils.....	109	86	12.9	512.6
	2096	Shortening and cooking oils.....	109	86	12.9	512.6
2082	----	Malt beverages.....	167	130	51.5	1,993.6
	2082	Malt liquors.....	167	130	51.5	1,993.6
2083	2083	Malt.....	40	26	1.7	55.0
2084	2084	Wines, brandy, and brandy spirits.....	213	74	9.4	407.9
2085	2085	Distilled liquor, except brandy.....	121	96	18.4	1,024.0
2086	2086	Bottled and canned soft drinks.....	2,683	1,552	121.1	2,336.7
2087	2087	Flavoring extracts and sirups, n.e.c.....	400	115	10.1	871.9
2091	----	Canned and cured seafoods.....	310	139	16.0	231.4
	2031	Canned and cured seafoods.....	310	139	16.0	231.4
2092	----	Fresh or frozen packaged fish.....	519	257	25.0	287.5
	2036	Fresh or frozen packaged fish.....	519	257	25.0	287.5

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
2095	2095	Roasted coffee.....	213	104	12.9	825.8
2097	2097	Manufactured ice.....	818	87	6.8	91.7
2098	2098	Macaroni and spaghetti.....	194	64	7.3	155.7
2099	2099	Food preparations, n.e.c.....	2,099	658	66.2	1,805.2
2111	2111	Cigarettes.....	20	11	38.1	2,188.4
2121	2121	Cigars.....	124	51	13.5	191.9
2131	2131	Chewing and smoking tobacco.....	37	22	3.3	103.2
2141	2141	Tobacco stemming and redrying.....	91	70	11.4	153.6
2211	2211	Weaving mills, cotton.....	307	227	121.3	1,256.3
2221	----	Weaving mills, manmade fiber and silk.....	412	341	149.7	1,831.6
	2221	Weaving mills, synthetic.....	412	341	149.7	1,831.6
2231	2231	Weaving and finishing mills, wool.....	198	119	19.4	239.4
2241	2241	Narrow fabric mills.....	376	215	27.1	289.0
2251	2251	Women's hosiery, except socks.....	312	217	49.5	438.8
2252	2252	Hosiery, n.e.c.....	415	269	32.6	295.2
2253	2253	Knit outerwear mills.....	917	547	74.4	799.5
2254	2254	Knit underwear mills.....	87	74	26.0	251.5
2257	----	Circular knit fabric mills.....	716	430	68.1	1,036.0
	2256	Knit fabric mills.....	716	430	68.1	1,036.0
2258	----	Warp knit fabric mills.....	203	155	22.0	317.8
	2256	Knit fabric mills.....	203	155	22.0	317.8
2259	2259	Knitting mills, n.e.c.....	73	33	3.9	41.8
2261	2261	Finishing plants, cotton.....	196	115	25.7	322.0
2262	----	Finishing plants, manmade fiber and silk.....	258	189	35.2	521.5
	2262	Finishing plants, synthetics.....	258	189	35.2	521.5
2269	2269	Finishing plants, n.e.c.....	201	128	18.5	270.4
2271	2271	Woven carpets and rugs.....	65	18	6.5	93.2
2272	2272	Tufted carpets and rugs.....	379	235	50.1	926.8
2279	2279	Carpets and rugs, n.e.c.....	85	27	3.3	58.2
2281	2281	Yarn mills, except wool.....	424	357	89.6	867.2
2282	2282	Throwing and winding mills.....	212	169	38.0	477.8
2283	2283	Wool yarn mills.....	98	63	8.3	92.7
2284	2284	Thread mills.....	73	45	11.7	141.8
2291	----	Felt goods, except woven felts and hats.....	47	30	5.0	80.5
	2291	Felt goods, n.e.c.....	47	30	5.0	80.5
2292	2292	Lace goods.....	105	29	2.9	29.4
2293	2293	Paddings and upholstery filling.....	132	59	4.4	64.5
2294	2294	Processed textile waste.....	106	37	3.6	50.9
2295	2295	Coated fabrics, not rubberized.....	203	132	18.0	382.4
2296	2296	Tire cord and fabric.....	18	18	10.0	145.8
2297	----	Nonwoven fabrics.....	84	67	10.8	191.8
	2299	Textile goods, n.e.c.....	84	67	10.8	191.8
2298	2298	Cordage and twine.....	156	81	9.0	96.3
2299	----	Textile goods, n.e.c.....	345	79	8.3	107.7
	2297	Scouring and combing plants.....	48	27	3.4	39.1
	2299	Textile goods, n.e.c.....	297	52	4.8	68.7
2311	2311	Men's and boys' suits and coats.....	856	570	124.8	1,342.2
2321	2321	Men's and boys' shirts and nightwear.....	730	563	113.4	1,003.8
2322	2322	Men's and boys' underwear.....	94	73	16.0	130.9
2323	2323	Men's and boys' neckwear.....	299	135	11.1	143.4
2327	2327	Men's and boys' separate trousers.....	624	428	91.3	734.9
2328	----	Men's and boys' work clothing.....	503	435	89.6	784.8
	2327	Men's and boys' separate trousers.....	3	3	1.8	23.7
	2328	Men's and boys' work clothing.....	500	432	87.8	761.1

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)	(1,000)	(million dollars)
2329	----	Men's and boys' clothing, n.e.c.....	537	366	42.0	393.8
2311		Men's and boys' suits and coats.....	4	4	1.0	27.4
2329		Men's and boys' clothing, n.e.c.....	533	362	40.9	366.4
2331	2331	Women's and misses' blouses and waists.....	971	703	63.0	592.4
2335	2335	Women's and misses' dresses.....	5,565	2,978	211.6	1,888.7
2337	2337	Women's and misses' suits and coats.....	1,617	1,022	75.9	839.8
2339	2339	Women's and misses' outerwear, n.e.c.....	1,373	897	82.1	781.0
2341	2341	Women's and children's underwear.....	730	484	77.5	709.0
2342	----	Brassieres and allied garments.....	272	193	28.0	340.0
	2342	Corsets and allied garments.....	272	193	28.0	340.0
2351	2351	Millinery.....	216	52	3.2	33.2
2352	2352	Hats and caps, except millinery.....	280	122	11.3	100.2
2361	2361	Children's dresses and blouses.....	490	353	35.4	335.8
2363	2363	Children's coats and suits.....	165	105	9.2	90.4
2369	2369	Children's outerwear, n.e.c.....	406	265	30.1	282.9
2371	2371	Fur goods.....	797	48	4.7	86.2
2381	2381	Fabric dress and work gloves.....	137	94	11.9	100.3
2384	2384	Robes and dressing gowns.....	179	110	10.0	92.5
2385	2385	Waterproof outer garments.....	258	165	15.4	168.8
2386	2386	Leather and sheep lined clothing.....	187	91	7.0	82.1
2387	2387	Apparel belts.....	297	132	10.3	132.5
2389	2389	Apparel and accessories, n.e.c.....	244	87	7.3	59.7
2391	2391	Curtains and draperies.....	1,592	351	33.9	302.3
2392	2392	Housefurnishings, n.e.c.....	1,112	414	50.3	585.2
2393	2393	Textile bags.....	208	94	7.9	74.5
2394	----	Canvas and related products.....	860	146	12.9	130.3
	2394	Canvas products.....	860	146	12.9	130.3
2395	2395	Pleating and stitching.....	898	205	16.7	174.7
2396	2396	Automotive and apparel trimmings.....	668	203	27.6	530.8
2397	2397	Schiffli machine embroideries.....	451	56	5.5	75.0
2399	2399	Fabricated textile products, n.e.c.....	822	286	31.4	315.5
2411	2411	Logging camps and logging contractors.....	13,238	696	80.0	1,163.4
2421	2421	Sawmills and planing mills, general.....	8,071	1,717	166.6	2,906.0
2426	----	Hardwood dimension and flooring.....	933	364	31.5	272.1
2426		Hardwood dimension and flooring.....	612	285	25.6	223.0
2512		Upholstered household furniture.....	321	79	5.9	49.1
2429	2429	Special product sawmills, n.e.c.....	447	86	6.4	80.4
2431	2431	Millwork.....	2,434	720	70.5	962.7
2434	----	Wood kitchen cabinets.....	1,796	396	38.8	486.7
2431		Millwork.....	893	225	17.1	201.0
2511		Wood household furniture.....	903	171	21.7	285.7
2435	----	Hardwood veneer and plywood.....	366	254	25.1	340.8
2432		Veneer and plywood.....	366	254	25.1	340.8
2436	----	Softwood veneer and plywood.....	232	225	43.7	935.4
2432		Veneer and plywood.....	232	225	43.7	935.4
2439	----	Structural wood members, n.e.c.....	678	196	12.6	182.8
2433		Prefabricated wood structures.....	678	196	12.6	182.8
2441	----	Nailed wood boxes and shook.....	436	130	10.7	103.8
2441		Nailed wooden boxes and shook.....	436	130	10.7	103.8
2448	----	Wood pallets and skids.....	456	271	14.3	140.9
2499		Wood products, n.e.c.....	456	271	14.3	140.9
2449	----	Wood containers, n.e.c.....	268	100	11.9	114.1
2442		Wirebound boxes and crates.....	136	58	7.7	71.2
2443		Veneer and plywood containers.....	60	25	1.9	13.1
2445		Cooperage.....	72	17	2.3	29.8

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
2451	----	Mobile homes.....	683	589	71.9	1,033.9
	3791	Trailer coaches.....	683	589	71.9	1,033.9
2452	----	Prefabricated wood buildings.....	310	245	25.2	457.1
	2433	Prefabricated wood structures.....	310	245	25.2	457.1
2491	2491	Wood preserving.....	399	168	11.3	175.8
2492	----	Particleboard.....	68	65	7.7	144.5
	2499	Wood products, n.e.c.....	68	65	7.7	144.5
2499	2499	Wood products, n.e.c.....	3,133	646	63.0	809.1
2511	2511	Wood household furniture.....	2,348	827	133.8	1,556.9
2512	2512	Upholstered household furniture.....	1,308	770	92.0	1,104.0
2514	2514	Metal household furniture.....	467	230	34.4	447.2
2515	2515	Mattresses and bedsprings.....	977	370	31.4	479.9
2517	----	Wood TV and radio cabinets.....	103	65	18.9	176.9
	2511	Wood household furniture.....	103	65	18.9	176.9
2519	2519	Household furniture, n.e.c.....	166	73	6.9	95.6
2521	2521	Wood office furniture.....	240	104	11.5	146.7
2522	2522	Metal office furniture.....	193	118	27.8	513.2
2531	----	Public building and related furniture.....	421	194	21.0	288.3
	2531	Public building furniture.....	421	194	21.0	288.3
2541	2541	Wood partitions and fixtures.....	1,503	413	31.2	458.6
2542	2542	Metal partitions and fixtures.....	507	239	26.2	412.4
2591	----	Drapery hardware and blinds and shades.....	505	66	12.1	198.2
	2591	Venetian blinds and shades.....	505	66	12.1	198.2
2599	2599	Furniture and fixtures, n.e.c.....	494	177	14.5	211.7
2611	2611	Pulpmills.....	60	35	10.6	306.9
2621	2621	Papermills, except building paper.....	349	295	129.9	2,909.3
2631	2631	Paperboard mills.....	273	248	68.5	1,994.4
2641	2641	Paper coating and glazing.....	426	217	37.2	984.4
2642	2642	Envelopes.....	247	183	22.9	347.1
2643	2643	Bags, except textile bags.....	583	331	48.6	840.5
2645	2645	Die-cut paper and board.....	374	159	15.2	301.6
2646	2646	Pressed and molded pulp goods.....	49	38	6.1	100.6
2647	2647	Sanitary paper products.....	108	85	26.3	882.8
2648	----	Stationery products.....	431	131	14.7	225.6
	2649	Converted paper products, n.e.c.....	431	131	14.7	225.6
2649	----	Converted paper products, n.e.c.....	307	181	18.1	325.6
	2644	Wallpaper.....	83	35	3.0	50.5
	2649	Converted paper products, n.e.c.....	224	146	15.1	275.1
2651	2651	Folding paperboard boxes.....	544	376	45.3	739.7
2652	2652	Setup paperboard boxes.....	397	269	18.1	195.9
2653	2653	Corrugated and solid fiber boxes.....	1,265	959	107.9	1,736.9
2654	2654	Sanitary food containers.....	251	193	35.1	659.8
2655	----	Fiber cans, drums, and similar products.....	282	182	17.3	266.4
	2655	Fiber cans, drums, and related material.....	282	182	17.3	266.4
2661	2661	Building paper and board mills.....	92	74	11.6	246.5
2711	2711	Newspapers.....	8,116	2,119	348.5	6,219.8
2721	2721	Periodicals.....	2,534	452	66.5	2,109.9
2731	2731	Book publishing.....	1,205	307	57.1	1,935.8
2732	2732	Book printing.....	700	287	40.9	604.5
2741	2741	Miscellaneous publishing.....	2,041	272	38.8	775.8
2751	----	Commercial printing, letterpress.....	13,198	1,171	130.1	2,003.0
	2751	Commercial printing, except lithographic.....	13,198	1,171	130.1	2,003.0
2752	2752	Commercial printing, lithographic.....	8,388	2,135	184.0	3,155.1
2753	2753	Engraving and plate printing.....	560	132	9.6	152.4
2754	----	Commercial printing, gravure.....	135	88	20.0	372.2
	2751	Commercial printing, except lithographic.....	135	88	20.0	372.2

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
				(1,000)	(million dollars)	
2761	2761	Manifold business forms.....	667	376	38.6	823.6
2771	2771	Greeting card publishing.....	199	82	23.5	527.0
2782	2782	Blankbooks and looseleaf binders.....	461	240	26.6	390.6
2789	2789	Bookbinding and related work.....	1,004	301	25.1	296.2
2791	2791	Typesetting.....	1,887	373	26.0	426.1
2793	2793	Photoengraving.....	590	135	9.9	191.7
2794	2794	Electrotyping and stereotyping.....	81	24	1.7	28.5
2795	----	Lithographic platemaking services.....	336	124	8.9	185.1
	2752	Commercial printing, lithographic.....	336	124	8.9	185.1
2812	2812	Alkalies and chlorine.....	48	39	13.3	455.6
2813	2813	Industrial gases.....	503	138	9.6	466.7
2816	2816	Inorganic pigments.....	114	69	12.8	382.6
2819	2819	Industrial inorganic chemicals, n.e.c.....	384	264	63.8	2,038.2
2821	2821	Plastics materials and resins.....	323	263	54.8	2,160.5
2822	2822	Synthetic rubber.....	59	34	11.8	491.7
2823	2823	Cellulosic manmade fibers.....	18	12	17.1	243.5
2824	2824	Organic fibers, noncellulosic.....	61	55	78.2	2,039.8
2831	2831	Biological products.....	182	62	10.1	231.4
2833	2833	Medicinals and botanicals.....	140	51	7.8	260.0
2834	2834	Pharmaceutical preparations.....	756	312	112.0	5,639.5
2841	2841	Soap and other detergents.....	642	199	31.5	2,038.8
2842	----	Polishes and sanitation goods.....	1,108	243	25.1	1,118.1
	2819	Industrial inorganic chemicals, n.e.c.....	329	51	3.9	181.1
	2842	Polishes and sanitation goods.....	779	192	21.1	937.0
2843	2843	Surface active agents.....	178	86	6.9	209.5
2844	2844	Toilet preparations.....	645	204	48.2	2,834.1
2851	2851	Paints and allied products.....	1,599	687	65.9	1,791.7
2861	2861	Gum and wood chemicals.....	139	41	5.9	155.4
2865	----	Cyclic crudes and intermediates.....	174	118	28.2	929.7
	2815	Cyclic intermediates and crudes.....	174	118	28.2	929.7
2869	----	Industrial organic chemicals, n.e.c.....	514	295	102.4	4,988.0
	2818	Industrial organic chemicals, n.e.c.....	514	295	102.4	4,988.0
2873	----	Nitrogenous fertilizers.....	73	68	9.4	447.6
	2818	Industrial organic chemicals, n.e.c.....	7	7	1.3	85.6
	2819	Industrial inorganic chemicals, n.e.c.....	66	61	8.1	362.0
2874	----	Phosphatic fertilizers.....	145	115	14.9	426.4
	2819	Industrial inorganic chemicals, n.e.c.....	9	6	.9	22.8
	2871	Fertilizers.....	136	109	14.0	403.6
2875	----	Fertilizers, mixing only.....	627	188	11.4	263.6
	2871	Fertilizers.....	14	2	.3	6.6
	2872	Fertilizers, mixing only.....	613	186	11.1	257.1
2879	----	Agricultural chemicals, n.e.c.....	388	113	12.2	598.9
	2842	Polishes and sanitation goods.....	89	15	.8	41.6
	2879	Agricultural chemicals, n.e.c.....	299	98	11.4	557.3
2891	----	Adhesives and sealants.....	463	187	14.9	426.6
	2821	Plastics materials and resins.....	45	23	1.6	39.0
	2851	Paints and allied products.....	38	25	2.6	78.0
	2891	Adhesives and gelatin.....	342	118	9.0	260.1
	3069	Fabricated rubber products, n.e.c.....	38	21	1.6	49.6
2892	2892	Explosives.....	92	50	18.6	281.7
2893	2893	Printing ink.....	407	145	9.6	232.0
2895	2895	Carbon black.....	37	33	2.9	137.6
2899	----	Chemical preparations, n.e.c.....	1,606	360	37.1	1,124.7
	2891	Adhesives and gelatin.....	16	13	1.9	81.4
	2899	Chemical preparations, n.e.c.....	1,590	347	35.1	1,043.3
2911	2911	Petroleum refining.....	323	277	100.8	4,594.7
2951	2951	Paving mixtures and blocks.....	964	169	13.9	403.1
2952	2952	Asphalt felts and coatings.....	235	140	15.6	443.3
2992	2992	Lubricating oils and greases.....	443	117	8.1	295.8

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
2999	2999	Petroleum and coal products, n.e.c.....	51	17	1.1	56.3
3011	3011	Tires and inner tubes.....	206	126	107.5	3,070.8
3021	----	Rubber and plastics footwear.....	107	74	31.6	370.3
	3021	Rubber footwear.....	81	50	28.1	332.5
	3079	Miscellaneous plastics products.....	26	24	3.5	37.8
3031	3031	Reclaimed rubber.....	20	9	.9	15.6
3041	----	Rubber and plastics hose and belting.....	90	73	31.9	618.7
	3069	Fabricated rubber products, n.e.c.....	74	62	30.1	580.1
	3079	Miscellaneous plastics products.....	16	11	1.8	38.6
3069	3069	Fabricated rubber products, n.e.c.....	1,116	606	99.0	1,573.1
3079	----	Miscellaneous plastics products.....	7,698	3,300	346.9	6,004.7
	2821	Plastics materials and resins.....	611	197	25.6	567.3
	3079	Miscellaneous plastics products.....	7,087	3,103	321.3	5,437.4
3111	3111	Leather tanning and finishing.....	517	223	25.7	368.3
3131	----	Boot and shoe cut stock and findings.....	248	121	8.7	86.2
	3131	Footwear cut stock.....	248	121	8.7	86.2
3142	3142	House slippers.....	91	66	8.5	85.7
3143	----	Men's footwear, except athletic.....	221	197	61.5	674.4
	3141	Shoes, except rubber.....	221	197	61.5	674.4
3144	----	Women's footwear, except athletic.....	422	316	77.4	763.6
	3141	Shoes, except rubber.....	422	316	77.4	763.6
3149	----	Footwear, except rubber, n.e.c.....	183	133	28.7	272.5
	3141	Shoes, except rubber.....	183	133	28.7	272.5
3151	3151	Leather gloves and mittens.....	106	60	4.9	43.0
3161	3161	Luggage.....	277	130	17.1	194.1
3171	3171	Women's handbags and purses.....	444	214	22.2	201.5
3172	----	Personal leather goods.....	244	98	11.5	143.7
	3172	Personal leather goods.....	244	98	11.5	143.7
3199	----	Leather goods, n.e.c.....	448	99	7.2	84.3
	3121	Industrial leather belting.....	50	11	.8	13.0
	3199	Leather goods, n.e.c.....	398	88	6.3	71.4
3211	3211	Flat glass.....	32	30	20.9	662.1
3221	3221	Glass containers.....	117	115	72.9	1,399.7
3229	3229	Pressed and blown glass, n.e.c.....	252	110	45.9	941.4
3231	3231	Products of purchased glass.....	913	284	33.7	668.9
3241	3241	Cement, hydraulic.....	198	171	30.0	1,153.5
3251	3251	Brick and structural clay tile.....	417	302	24.1	336.4
3253	3253	Ceramic wall and floor tile.....	83	56	8.3	112.3
3255	3255	Clay refractories.....	156	101	11.2	202.1
3259	3259	Structural clay products, n.e.c.....	119	70	8.2	119.8
3261	3261	Vitreous plumbing fixtures.....	59	40	9.6	186.8
3262	3262	Vitreous china food utensils.....	34	20	5.9	67.4
3263	3263	Fine earthenware food utensils.....	18	15	6.8	56.2
3264	3264	Porcelain electrical supplies.....	83	64	13.4	190.4
3269	3269	Pottery products, n.e.c.....	426	95	9.1	99.9
3271	3271	Concrete block and brick.....	1,388	416	22.8	438.5
3272	3272	Concrete products, n.e.c.....	3,595	923	67.7	1,190.1
3273	3273	Ready-mixed concrete.....	4,915	1,328	85.7	1,756.7
3274	3274	Lime.....	103	69	5.7	129.3
3275	3275	Gypsum products.....	114	84	11.2	325.1
3281	3281	Cut stone and stone products.....	908	192	15.0	191.4
3291	3291	Abrasive products.....	392	167	24.5	529.6
3292	----	Asbestos products.....	142	97	21.0	426.1
	3292	Asbestos products.....	132	90	20.2	409.2
	3293	Gaskets and insulations.....	10	7	.8	16.9
3293	----	Gaskets, packing and sealing devices.....	374	184	27.7	428.5
	3069	Fabricated rubber products, n.e.c.....	66	57	11.9	183.4
	3121	Industrial leather belting.....	3	3	.2	2.1
	3293	Gaskets and insulations.....	294	120	13.8	202.8
	3599	Miscellaneous machinery, except electrical.....	11	4	1.8	40.3

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)	(1,000)	(million dollars)
3295	3295	Minerals, ground or treated.....	488	152	9.5	237.2
3296	3296	Mineral wool.....	108	75	18.0	441.5
3297	3297	Nonclay refractories.....	90	60	8.1	191.1
3299	3299	Nonmetallic mineral products, n.e.c.....	491	81	6.3	104.7
3312	3312	Blast furnaces and steel mills.....	364	251	469.1	10,304.7
3313	3313	Electrometallurgical products.....	40	31	9.5	217.2
3315	3315	Steel wire and related products.....	289	199	30.6	583.5
3316	3316	Cold finishing of steel shapes.....	125	93	20.1	504.6
3317	3317	Steel pipe and tubes.....	152	122	23.6	506.1
3321	3321	Gray iron foundries.....	993	723	138.4	2,257.0
3322	3322	Malleable iron foundries.....	73	64	22.5	342.6
3324	----	Steel investment foundries.....	74	62	11.2	175.6
	3323	Steel foundries.....	74	62	11.2	175.6
3325	----	Steel foundries, n.e.c.....	260	201	46.7	706.0
	3323	Steel foundries.....	260	201	46.7	706.0
3331	3331	Primary copper.....	31	31	17.2	487.8
3332	3332	Primary lead.....	16	15	2.8	128.7
3333	3333	Primary zinc.....	15	15	6.3	121.6
3334	3334	Primary aluminum.....	31	31	25.6	816.0
3339	3339	Primary nonferrous metals, n.e.c.....	84	32	6.7	151.5
3341	3341	Secondary nonferrous metals.....	381	184	17.8	410.9
3351	3351	Copper rolling and drawing.....	149	117	37.8	800.3
3353	----	Aluminum sheet, plate, and foil.....	50	49	31.3	692.3
	3352	Aluminum rolling and drawing.....	50	49	31.3	692.3
3354	----	Aluminum extruded products.....	180	128	27.7	427.6
	3352	Aluminum rolling and drawing.....	180	128	27.7	427.6
3355	----	Aluminum rolling and drawing, n.e.c.....	16	15	4.6	57.3
	3352	Aluminum rolling and drawing.....	16	15	4.6	57.3
3356	3356	Nonferrous rolling and drawing, n.e.c.....	167	97	18.1	374.1
3357	3357	Nonferrous wiredrawing and insulating.....	341	278	68.8	1,448.0
3361	----	Aluminum foundries.....	1,005	430	45.7	718.3
	3361	Aluminum castings.....	1,005	430	45.7	718.3
3362	----	Brass, bronze, and copper foundries.....	507	195	15.4	236.9
	3362	Brass, bronze, and copper castings.....	507	195	15.4	236.9
3369	----	Nonferrous foundries, n.e.c.....	329	167	20.3	314.0
	3369	Nonferrous castings, n.e.c.....	329	167	20.3	314.0
3398	----	Metal heat treating.....	952	266	17.2	310.6
	3399	Primary metal products, n.e.c.....	952	266	17.2	310.6
3399	3399	Primary metal products, n.e.c.....	168	105	7.9	165.0
3411	3411	Metal cans.....	396	309	68.5	1,815.8
3412	----	Metal barrels, drums, and pails.....	157	99	10.2	188.8
	3491	Metal barrels, drums, and pails.....	157	99	10.2	188.8
3421	3421	Cutlery.....	134	69	13.4	322.3
3423	3423	Hand and edge tools, n.e.c.....	626	255	39.3	780.0
3425	3425	Handsaws and saw blades.....	91	52	6.6	127.5
3429	3429	Hardware, n.e.c.....	1,053	482	99.9	2,023.6
3431	3431	Metal sanitary ware.....	95	50	11.2	208.2
3432	3432	Plumbing fittings and brass goods.....	230	112	18.6	361.8
3433	3433	Heating equipment, except electric.....	432	191	30.9	561.6
3441	----	Fabricated structural metal products.....	2,154	1,094	104.3	1,730.7
	3441	Fabricated structural steel.....	2,154	1,094	104.3	1,730.7
3442	3442	Metal doors, sash, and trim.....	1,558	646	70.7	1,003.7

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
3443	3443	Fabricated platework (boiler shops).....	1,486	795	93.0	1,758.7
3444	3444	Sheet metalwork.....	3,117	933	74.0	1,299.9
3446	3446	Architectural metalwork.....	1,459	250	20.9	311.8
3448	----	Prefabricated metal buildings.....	159	88	12.5	275.9
3449	3449	Miscellaneous metalwork.....	159	88	12.5	275.9
3449	3449	Miscellaneous metalwork.....	418	220	19.5	362.2
3451	3451	Screw machine products.....	1,804	612	40.5	648.5
3452	3452	Bolts, nuts, rivets, and washers.....	678	396	60.1	1,196.8
3462	----	Iron and steel forgings.....	280	180	34.3	661.8
3391	3391	Iron and steel forgings.....	280	180	34.3	661.8
3463	----	Nonferrous forgings.....	46	33	5.8	104.0
3392	3392	Nonferrous forgings.....	46	33	5.8	104.0
3465	----	Automotive stampings.....	453	364	123.3	2,663.8
3461	3461	Metal stampings.....	453	364	123.3	2,663.8
3466	----	Crowns and closures.....	53	48	8.1	166.7
3461	3461	Metal stampings.....	53	48	8.1	166.7
3469	----	Metal stampings, n.e.c.....	2,356	982	92.0	1,461.0
3461	3461	Metal stampings.....	2,356	982	92.0	1,461.0
3471	3471	Plating and polishing.....	3,264	825	54.6	741.2
3479	3479	Metal coating and allied services.....	1,497	372	27.6	379.2
3482	----	Small arms ammunition.....	62	25	13.9	228.6
1961	1961	Small arms ammunition.....	62	25	13.9	228.6
3483	----	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
1929	1929	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
3484	----	Small arms.....	82	41	16.1	278.6
1951	1951	Small arms.....	82	41	16.1	278.6
3489	----	Ordnance and accessories, n.e.c.....	76	36	24.6	380.9
1911	1911	Guns, howitzers, and mortars.....	13	3	3.5	53.6
1999	1999	Ordnance and accessories, n.e.c.....	63	33	21.1	327.4
3493	----	Steel springs, except wire.....	110	53	8.5	149.7
3493	3493	Steel springs.....	110	53	8.5	149.7
3494	3494	Valves and pipe fittings.....	780	464	94.3	1,751.2
3495	----	Wire springs.....	284	216	23.7	340.7
3481	3481	Miscellaneous fabricated wire products.....	284	216	23.7	340.7
3496	----	Miscellaneous fabricated wire products.....	1,211	412	33.2	504.4
3481	3481	Miscellaneous fabricated wire products.....	1,211	412	33.2	504.4
3497	3497	Metal foil and leaf.....	63	40	5.4	126.5
3498	3498	Fabricated pipe and fittings.....	423	202	17.5	363.1
3499	----	Fabricated metal products, n.e.c.....	2,343	653	61.8	1,047.4
3492	3492	Safes and vaults.....	44	19	4.1	79.0
3496	3496	Collapsible tubes.....	20	17	2.6	29.0
3499	3499	Fabricated metal products, n.e.c.....	2,279	617	55.1	939.5
3511	----	Turbines and turbine generator sets.....	75	46	46.2	1,225.3
3511	3511	Steam engines and turbines.....	75	46	46.2	1,225.3
3519	3519	Internal combustion engines, n.e.c.....	178	108	69.9	1,674.2
3523	----	Farm machinery and equipment.....	1,548	564	104.6	2,248.0
3522	3522	Farm machinery.....	1,473	539	101.8	2,195.4
3799	3799	Transportation equipment, n.e.c.....	75	25	2.8	52.7
3524	----	Lawn and garden equipment.....	110	86	20.7	453.2
3522	3522	Farm machinery.....	110	86	20.7	453.2
3531	3531	Construction machinery.....	748	387	133.8	3,130.7
3532	3532	Mining machinery.....	240	124	21.3	393.2
3533	3533	Oilfield machinery.....	315	159	35.9	788.6
3534	3534	Elevators and moving stairways.....	154	88	15.0	310.2
3535	3535	Conveyors and conveying equipment.....	492	243	27.2	540.1
3536	3536	Hoists, cranes, and monorails.....	188	92	16.3	274.7
3537	3537	Industrial trucks and tractors.....	380	135	25.8	524.7
3541	3541	Machine tools, metal-cutting types.....	894	275	52.5	901.7

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars).
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
3542	----	Machine tools, metal-forming types.....	383	162	24.1	417.7
	3542	Machine tools, metal-forming types.....	383	162	24.1	417.7
3544	----	Special dies, tools, jigs, and fixtures.....	6,616	1,266	97.8	1,797.4
	3544	Special dies, tools, jigs, and fixtures.....	6,616	1,266	97.8	1,797.4
3545	----	Machine tool accessories.....	1,231	413	46.7	876.1
	3545	Machine tool accessories.....	1,231	413	46.7	876.1
3546	----	Power-driven handtools.....	88	65	23.1	434.5
	3548	Metalworking machinery, n.e.c.....	88	65	23.1	434.5
3547	----	Rolling mill machinery.....	47	38	10.4	206.4
	3548	Metalworking machinery, n.e.c.....	47	38	10.4	206.4
3549	----	Metalworking machinery, n.e.c.....	393	134	13.6	267.9
	3548	Metalworking machinery, n.e.c.....	393	134	13.6	267.9
3551	3551	Food products machinery.....	688	290	31.9	605.2
3552	3552	Textile machinery.....	579	225	32.7	487.9
3553	3553	Woodworking machinery.....	242	109	13.7	285.1
3554	3554	Paper industries machinery.....	218	109	15.3	254.0
3555	3555	Printing trades machinery.....	574	173	23.9	503.6
3559	3559	Special industry machinery, n.e.c.....	1,384	525	72.6	1,596.1
3561	----	Pumps and pumping equipment.....	559	260	55.5	1,095.6
	3561	Pumps and compressors.....	559	260	55.5	1,095.6
3562	3562	Ball and roller bearings.....	132	92	49.2	898.7
3563	----	Air and gas compressors.....	84	64	22.9	467.5
	3561	Pumps and compressors.....	84	64	22.9	467.5
3564	3564	Blowers and fans.....	396	172	23.5	468.8
3565	3565	Industrial patterns.....	1,021	97	8.5	161.0
3566	----	Speed changers, drives, and gears.....	346	155	22.5	409.0
	3566	Power transmission equipment.....	346	155	22.5	409.0
3567	3567	Industrial furnaces and ovens.....	266	108	13.6	244.3
3568	----	Power transmission equipment, n.e.c.....	155	127	27.7	544.4
	3566	Power transmission equipment.....	155	127	27.7	544.4
3569	3569	General industrial machinery, n.e.c.....	901	360	37.0	697.7
3573	3573	Electronic computing equipment.....	602	355	144.8	3,497.6
3574	3574	Calculating and accounting machines.....	79	30	22.5	407.0
3576	----	Scales and balances, except laboratory.....	97	44	6.7	129.7
	3576	Scales and balances.....	97	44	6.7	129.7
3579	----	Typewriters; office machines, n.e.c.....	217	97	34.5	870.1
	3572	Typewriters.....	21	12	12.5	371.3
	3574	Calculating and accounting machines.....	3	3	.7	14.5
	3579	Office machines, n.e.c.....	193	82	21.3	484.3
3581	3581	Automatic merchandising machines.....	125	48	10.5	183.4
3582	3582	Commercial laundry equipment.....	107	47	4.8	88.2
3585	----	Refrigeration and heating equipment.....	774	443	150.8	3,517.4
	3433	Heating equipment, except electric.....	39	28	9.7	190.5
	3585	Refrigeration machinery.....	735	415	141.2	3,326.9
3586	3586	Measuring and dispensing pumps.....	57	33	7.2	134.1
3589	----	Service industry machinery, n.e.c.....	706	232	24.4	503.6
	3589	Service industry machines, n.e.c.....	706	232	24.4	503.6
3592	----	Carburetors, pistons, rings, valves.....	113	72	26.7	500.0
	3599	Miscellaneous machinery, except electrical.....	113	72	26.7	500.0
3599	----	Machinery, except electrical, n.e.c.....	16,287	1,946	157.8	2,515.5
	3599	Miscellaneous machinery, except electrical.....	16,287	1,946	157.8	2,515.5
3612	----	Transformers.....	216	136	46.8	757.3
	3611	Electric measuring instruments.....	8	7	.9	15.9
	3612	Transformers.....	208	129	45.9	741.4
3613	3613	Switchgear and switchboard apparatus.....	568	283	69.2	1,303.0
3621	3621	Motors and generators.....	425	257	90.3	1,475.2
3622	3622	Industrial controls.....	590	218	51.1	908.4

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
3623	----	Welding apparatus, electric.....	166	80	15.5	353.5
	3623	Welding apparatus.....	166	80	15.5	353.5
3624	3624	Carbon and graphite products.....	72	44	11.3	217.4
3629	3629	Electrical industrial apparatus, n.e.c.....	258	121	20.2	270.0
3631	3631	Household cooking equipment.....	84	51	23.3	412.0
3632	3632	Household refrigerators and freezers.....	36	25	34.1	790.8
3633	----	Household laundry equipment.....	29	24	23.6	684.7
	3582	Commercial laundry equipment.....	3	2	.4	5.4
	3633	Household laundry equipment.....	26	22	23.2	679.3
3634	3634	Electric housewares and fans.....	299	167	51.3	909.2
3635	3635	Household vacuum cleaners.....	36	24	11.2	299.5
3636	3636	Sewing machines.....	75	18	5.3	124.6
3639	3639	Household appliances, n.e.c.....	85	48	14.0	341.4
3641	3641	Electric lamps.....	143	72	31.5	724.4
3643	3643	Current-carrying wiring devices.....	413	222	50.4	792.1
3644	3644	Noncurrent-carrying wiring devices.....	179	117	25.7	490.8
3645	----	Residential lighting fixtures.....	701	278	26.5	390.2
	3642	Lighting fixtures.....	701	278	26.5	390.2
3646	----	Commercial lighting fixtures.....	236	140	18.8	350.4
	3642	Lighting fixtures.....	236	140	18.8	350.4
3647	----	Vehicular lighting equipment.....	47	31	13.6	299.8
	3642	Lighting fixtures.....	47	31	13.6	299.8
3648	----	Lighting equipment, n.e.c.....	190	95	12.7	254.3
	3642	Lighting fixtures.....	190	95	12.7	254.3
3651	3651	Radio and TV receiving sets.....	372	164	86.5	1,807.8
3652	3652	Phonograph records.....	567	119	20.3	375.6
3661	3661	Telephone and telegraph apparatus.....	203	110	134.4	2,650.1
3662	3662	Radio and TV communication equipment.....	1,773	921	319.2	5,803.1
3671	3671	Electron tubes, receiving type.....	25	13	11.4	173.8
3672	----	Cathode ray television picture tubes.....	75	21	15.2	345.5
	3672	Cathode ray picture tubes.....	75	21	15.2	345.5
3673	3673	Electron tubes, transmitting.....	51	38	20.5	342.8
3674	----	Semiconductors and related devices.....	327	198	97.6	1,735.1
	3674	Semiconductors.....	327	198	97.6	1,735.1
3675	----	Electronic capacitors.....	113	101	27.6	298.6
	3679	Electronic components, n.e.c.....	113	101	27.6	298.6
3676	----	Electronic resistors.....	86	78	20.5	263.5
	3679	Electronic components, n.e.c.....	86	78	20.5	263.5
3677	----	Electronic coils and transformers.....	248	206	24.2	228.7
	3679	Electronic components, n.e.c.....	248	206	24.2	228.7
3678	----	Electronic connectors.....	91	79	18.1	345.6
	3679	Electronic components, n.e.c.....	91	79	18.1	345.6
3679	3679	Electronic components, n.e.c.....	1,844	700	100.5	1,577.2
3691	3691	Storage batteries.....	212	120	22.1	477.8
3692	3692	Primary batteries, dry and wet.....	48	31	8.4	221.6
3693	3693	X-ray apparatus and tubes.....	104	54	12.1	311.3
3694	3694	Engine electrical equipment.....	290	143	57.9	1,212.6
3699	----	Electrical equipment and supplies, n.e.c.....	995	189	19.3	263.9
	3699	Electrical equipment, n.e.c.....	995	189	19.3	263.9
3711	----	Motor vehicles and car bodies.....	231	119	339.2	11,782.5
	3711	Motor vehicles.....	231	119	339.2	11,782.5
3713	----	Truck and bus bodies.....	786	354	42.6	659.7
	3713	Truck and bus bodies.....	778	346	41.8	648.5
	3791	Trailer coaches.....	8	8	.8	11.2

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)		(million dollars)	
3714	3714	Motor vehicle parts and accessories.....	2,119	935	400.9	9,164.7
3715	3715	Truck trailers.....	255	139	24.7	449.3
3721	3721	Aircraft.....	168	86	231.8	5,083.0
3724	----	Aircraft engines and engine parts.....	232	156	104.7	1,991.7
	3722	Aircraft engines and engine parts.....	232	156	104.7	1,991.7
3728	----	Aircraft equipment, n.e.c.....	694	313	102.2	2,048.9
	3729	Aircraft equipment, n.e.c.....	694	313	102.2	2,048.9
3731	3731	Ship building and repairing.....	455	277	144.6	1,881.3
3732	3732	Boat building and repairing.....	1,777	368	40.6	516.8
3743	----	Railroad equipment.....	163	103	50.8	1,113.3
	3741	Locomotives and parts.....	34	16	19.6	591.1
	3742	Railroad and streetcars.....	129	87	31.2	522.3
3751	3751	Motorcycles, bicycles, and parts.....	222	52	17.6	315.2
3761	----	Guided missiles and space vehicles.....	70	57	118.4	2,948.7
	1925	Complete guided missiles.....	70	57	118.4	2,948.7
3764	----	Space propulsion units and parts.....	29	28	20.8	506.6
	3722	Aircraft engines and engine parts.....	29	28	20.8	506.6
3769	----	Space vehicle equipment, n.e.c.....	48	39	20.9	513.9
	3729	Aircraft equipment, n.e.c.....	48	39	20.9	513.9
3792	----	Travel trailers and campers.....	1,030	385	37.1	479.9
	3791	Trailer coaches.....	1,000	362	33.3	435.4
	3799	Transportation equipment, n.e.c.....	30	23	3.7	44.5
3795	----	Tanks and tank components.....	22	15	5.9	111.7
	1931	Tanks and tank components.....	22	15	5.9	111.7
3799	----	Transportation equipment, n.e.c.....	501	192	16.1	232.1
	3751	Motorcycles, bicycles, and parts.....	4	1	.1	1.4
	3791	Trailer coaches.....	14	9	.6	5.0
	3799	Transportation equipment, n.e.c.....	483	182	15.4	225.7
3811	3811	Engineering and scientific instruments.....	739	262	36.7	653.2
3822	----	Environmental controls.....	131	62	30.7	511.8
	3822	Automatic temperature controls.....	131	62	30.7	511.8
3823	----	Process control instruments.....	187	128	35.6	620.4
	3821	Mechanical measuring devices.....	187	128	35.6	620.4
3824	----	Fluid meters and counting devices.....	61	43	8.8	180.9
	3821	Mechanical measuring devices.....	61	43	8.8	180.9
3825	----	Instruments to measure electricity.....	645	265	54.7	1,046.8
	3611	Electric measuring instruments.....	645	265	54.7	1,046.8
3829	----	Measuring and controlling devices, n.e.c.....	595	153	24.6	394.9
	3821	Mechanical measuring devices.....	595	153	24.6	394.9
3832	----	Optical instruments and lenses.....	494	146	18.8	384.3
	1941	Sighting and fire control equipment.....	18	6	.9	14.2
	3831	Optical instruments and lenses.....	476	140	17.9	370.1
3841	3841	Surgical and medical instruments.....	506	199	34.5	630.0
3842	3842	Surgical appliances and supplies.....	872	256	43.9	929.0
3843	3843	Dental equipment and supplies.....	429	107	12.4	262.3
3851	3851	Ophthalmic goods.....	499	125	26.6	416.3
3861	3861	Photographic equipment and supplies.....	627	225	96.0	4,087.9
3873	---	Watches, clocks, and watchcases.....	202	99	30.8	466.0
	3871	Watches and clocks.....	165	78	27.2	423.0
	3872	Watchcases.....	37	21	3.6	42.9
3911	3911	Jewelry, precious metal.....	1,524	315	32.6	536.0
3914	3914	Silverware and plated ware.....	206	72	13.1	206.8
3915	----	Jewelers' materials and lapidary work.....	567	87	8.0	116.4
	3912	Jewelers' findings and materials.....	239	63	5.7	75.2
	3913	Lapidary work.....	328	24	2.3	41.1

APPENDIX B—Continued

PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
3931	----	Musical instruments.....	344	111	24.5	339.3
	3931	Musical instruments and parts.....	344	111	24.5	339.3
3942	3942	Dolls.....	243	105	10.2	98.3
3944	----	Games, toys, and children's vehicles.....	664	284	61.5	980.6
	3941	Games and toys.....	633	267	58.0	940.2
	3943	Children's vehicles, except bicycles.....	31	17	3.5	40.3
3949	3949	Sporting and athletic goods, n.e.c.....	1,553	463	61.0	920.4
3951	----	Pens and mechanical pencils.....	117	64	10.9	213.7
	3951	Pens and mechanical pencils.....	111	59	10.2	200.2
	3953	Marking devices.....	6	5	.7	13.5
3952	3952	Lead pencils and art goods.....	144	49	7.1	108.2
3953	3953	Marking devices.....	621	99	8.1	121.5
3955	3955	Carbon paper and inked ribbons.....	84	52	5.7	113.4
3961	3961	Costume jewelry.....	766	208	21.4	275.7
3962	3962	Artificial flowers.....	263	53	4.8	57.5
3963	3963	Buttons.....	186	51	4.0	51.8
3964	3964	Needles, pins, and fasteners.....	267	125	20.2	334.5
3991	3991	Brooms and brushes.....	450	166	17.5	235.5
3993	3993	Signs and advertising displays.....	3,287	637	49.8	747.7
3995	----	Burial caskets.....	515	189	14.8	210.3
	3994	Morticians' goods.....	515	189	14.8	210.3
3996	3996	Hard surface floor coverings.....	20	11	5.8	212.0
3999	----	Manufacturing industries, n.e.c.....	3,367	614	65.1	897.2
	3999	Manufactures, n.e.c.....	3,367	614	65.1	897.2

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
1911	Guns, howitzers, and mortars	3489 pt.	Ordnance and accessories, n.e.c.
1925	Complete guided missiles	3761	Guided missiles and space vehicles ¹
1929	Ammunition, except for small arms, n.e.c.	3483	Ammunition, except for small arms, n.e.c. ¹
1931	Tanks and tank components	3795	Tanks and tank components ¹
1941	Sighting and fire control equipment:		
	Sighting and fire control equipment, electronic . .	3662 pt.	Radio and TV communication equipment
	Optical instruments and lenses	3832 pt.	Optical instruments and lenses
1951	Small arms	3484	Small arms ¹
1961	Small arms ammunition	3482	Small arms ammunition ¹
1999	Ordnance and accessories, n.e.c.	3489 pt.	Ordnance and accessories, n.e.c.
2011	Meatpacking plants:		
	Meatpacking plants, n.e.c.	2011	Meatpacking plants
	Baby food meats	2032 pt.	Canned specialties
	Pet food, from nonfood animals slaughtered in same plant	2047 pt.	Dog, cat, and other pet food
2013	Sausages and other prepared meats:		
	Sausages and other prepared meats, n.e.c.	2013	Sausages and other prepared meats
	Baby food meats	2032 pt.	Canned specialties
2015	Poultry dressing plants	2016	Poultry dressing plants
		2017	Poultry and egg processing
2031	Canned and cured sea foods	2091	Canned and cured seafoods ¹
2032	Canned specialties	2032 pt.	Canned specialties
2036	Fresh or frozen packaged fish	2092	Fresh or frozen packaged fish ¹
		2037	Frozen fruits and vegetables
2037	Frozen fruits and vegetables	2038	Frozen specialties
2042	Prepared feeds for animals and fowls:		
	Dog, cat, and other pet food	2047 pt.	Dog, cat, and other pet food
	Other prepared feeds	2048	Prepared feeds, n.e.c.
2071	Confectionery products	2065	Confectionery products ¹
2072	Chocolate and cocoa products	2066	Chocolate and cocoa products ¹
2073	Chewing gum	2067	Chewing gum ¹
2091	Cottonseed oil mills	2074	Cottonseed oil mills ¹
2092	Soybean oil mills	2075	Soybean oil mills ¹
2093	Vegetable oil mills, n.e.c.	2076	Vegetable oil mills, n.e.c. ¹
2094	Animal and marine fats and oils	2077	Animal and marine fats and oils ¹
2096	Shortening and cooking oils	2079	Shortening and cooking oils ¹

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
2256	Knit fabric mills	{ 2257	Circular knit fabric mills
		{ 2258	Warp knit fabric mills
2297	Scouring and combing plants	2299 pt.	Textile goods, n.e.c.
2299	Textile goods, n.e.c.:		
	Nonwoven fabrics	2297	Nonwoven fabrics
	Other textile goods, n.e.c.	2299 pt.	Textile goods, n.e.c.
2426	Hardwood dimension and flooring	2426 pt.	Hardwood dimension and flooring
2431	Millwork:		
	Millwork, n.e.c.	2431	Millwork
	Wood kitchen cabinets to be built-in	2434	Wood kitchen cabinets
2432	Veneer and plywood	{ 2435	Hardwood veneer and plywood
		{ 2436	Softwood veneer and plywood
2433	Prefabricated wood structures	{ 2439	Structural wood members, n.e.c.
		{ 2452	Prefabricated wood buildings
2442	Wirebound boxes and crates		
2443	Veneer and plywood containers	{ 2449	Wood containers, n.e.c.
2445	Cooperage		
2499	Wood products, n.e.c.	{ 2448	Wood pallets and skids
		{ 2492	Particleboard
		{ 2499	Wood products, n.e.c.
2511	Wood household furniture:		
	Wood kitchen cabinets, except to be		
	built-in	2434 pt.	Wood kitchen cabinets
	Wood household furniture, n.e.c.	2511	Wood household furniture
	Wood TV, radio, phonograph, and sewing		
	machine cabinets	2517	Wood TV and radio cabinets
2512	Upholstered household furniture:		
	Wood furniture frames	2426 pt.	Hardwood dimension and flooring
	Upholstered household furniture, n.e.c.	2512	Upholstered household furniture
2644	Wallpaper	2649 pt.	Converted paper products, n.e.c.
2649	Converted paper products, n.e.c.:		
	Stationery products	2648	Stationery products
	Other	2649 pt.	Converted paper products, n.e.c.
2751	Commercial printing, except lithographic:		
	Letterpress and screen	2751	Commercial printing, letterpress
	Gravure	2754	Commercial printing, gravure
2752	Commercial printing, lithographic	{ 2752	Commercial printing, lithographic
		{ 2795	Lithographic platemaking services

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
2815	Cyclic intermediates and crudes	2865	Cyclic crudes and intermediates ¹
2818	Industrial organic chemicals, n.e.c.:		
	Industrial organic chemicals, n.e.c.	2869	Industrial organic chemicals, n.e.c.
	Urea	2873 pt.	Nitrogenous fertilizers
2819	Industrial inorganic chemicals, n.e.c.:		
	Industrial inorganic chemicals	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Household bleaches	2842 pt.	Polishes and sanitation goods
	Nitrogenous fertilizer materials; nitric acid	2873 pt.	Nitrogenous fertilizers
	Phosphoric acid and diammonium phosphate	2874 pt.	Phosphatic fertilizers
2821	Plastics materials and resins:		
	Plastics materials and resins, n.e.c.	2821	Plastics materials and resins
	Adhesives from resins produced in same establishment	2891 pt.	Adhesives and sealants
	Rods, sheets, etc., from resins produced in same establishment	3079 pt.	Miscellaneous plastics products
2842	Polishes and sanitation goods:		
	Polishes and sanitation goods, n.e.c.	2842 pt.	Polishes and sanitation goods
	Household pesticidal preparations	2879 pt.	Agricultural chemicals, n.e.c.
2851	Paints and allied products:		
	Paints and allied products, n.e.c.	2851	Paints and allied products
	Calking compounds	2891 pt.	Adhesives and sealants
2871	Fertilizers:		
	Natural organic fertilizers, except compost	2873 pt.	Nitrogenous fertilizers
	Phosphatic fertilizers	2874 pt.	Phosphatic fertilizers
2872	Fertilizers, mixing only	2875	Fertilizers, mixing only ¹
2879	Agricultural chemicals, n.e.c.	2879 pt.	Agricultural chemicals, n.e.c.
2891	Adhesives and gelatin:		
	Adhesives	2891 pt.	Adhesives and sealants
	Gelatin and sizes	2899 pt.	Chemical preparations, n.e.c.
2899	Chemical preparations, n.e.c.:		
	Sealants, n.e.c.	2891 pt.	Adhesives and sealants
	Chemical preparations, n.e.c.	2899 pt.	Chemical preparations, n.e.c.
2911	Petroleum refining:		
	Except rerefining of oils, etc.	2911	Petroleum refining
	Rerefining of oils and greases	2992 pt.	Lubricating oils and greases
2952	Asphalt felts and coatings:		
	Linoleum and tile cement	2891 pt.	Adhesives and sealants
	Asphalt felts and coatings, n.e.c.	2952	Asphalt felts and coatings

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
2992	Lubricating oils and greases	2992 pt.	Lubricating oils and greases
3021	Rubber footwear	3021 pt.	Rubber and plastics footwear
3069	Fabricated rubber products, n.e.c.:		
	Rubber cement	2891 pt.	Adhesives and sealants
	Rubber hose and belting	3041 pt.	Rubber and plastics hose and belting
	Fabricated rubber products, n.e.c.	3069	Fabricated rubber products, n.e.c.
	Rubber packing	3293 pt.	Gaskets, packing and sealing devices
3079	Miscellaneous plastics products:		
	Plastics footwear	3021 pt.	Rubber and plastics footwear
	Plastics hose and belting	3041 pt.	Rubber and plastics hose and belting
	Miscellaneous plastics products, n.e.c.	3079 pt.	Miscellaneous plastics products
3121	Industrial leather belting:		
	Leather belting	3199 pt.	Leather goods, n.e.c.
	Leather packing	3293 pt.	Gaskets, packing and sealing devices
3141	Shoes, except rubber	3143 3144 3149	Men's footwear, except athletic Women's footwear, except athletic Footwear, except rubber, n.e.c.
3199	Leather goods, n.e.c.	3199 pt.	Leather goods, n.e.c.
3292	Asbestos products	3292 pt.	Asbestos products
3293	Gaskets and insulations:		
	Asbestos insulation	3292 pt.	Asbestos products
	Gaskets and packing, n.e.c.	3293 pt.	Gaskets, packing and sealing devices
3295	Minerals, ground or treated	3295	Minerals, ground or treated ²
3323	Steel foundries	3324 3325	Steel investment foundries Steel foundries, n.e.c.
3352	Aluminum rolling and drawing	3353 3354 3355	Aluminum sheet, plate, and foil Aluminum extruded products Aluminum rolling and drawing, n.e.c.
3391	Iron and steel forgings	3462	Iron and steel forgings ¹
3392	Nonferrous forgings	3463	Nonferrous forgings ¹
3399	Primary metal products, n.e.c.	3398 3399	Metal heat treating Primary metal products, n.e.c.
3433	Heating equipment, except electric:		
	Heating equipment, except electric, n.e.c.	3433	Heating equipment, except electric
	Warm air heating equipment	3585 pt.	Refrigeration and heating equipment
3449	Miscellaneous metalwork	3448 3449	Prefabricated metal buildings Miscellaneous metalwork

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
3461	Metal stampings	3465	Automotive stampings
		3466	Crowns and closures
		3469	Metal stampings, n.e.c.
3481	Miscellaneous fabricated wire products	3495	Wire springs
3491	Metal barrels, drums, and pails	3496	Miscellaneous fabricated wire products
3492	Safes and vaults	3412	Metal barrels, drums, and pails ¹
3496	Collapsible tubes	3499	Fabricated metal products, n.e.c.
3499	Fabricated metal products, n.e.c.		
3522	Farm machinery:		
	Farm machinery, n.e.c.	3523 pt.	Farm machinery and equipment
	Lawn and garden equipment	3524	Lawn and garden equipment
3531	Construction machinery	3531 pt.	Construction machinery
3533	Oilfield machinery:		
	Well point systems	3531 pt.	Construction machinery
	Oilfield machinery	3533	Oilfield machinery
3536	Hoists, cranes, and monorails	3536 pt.	Hoists, cranes, and monorails
3537	Industrial trucks and tractors:		
	Automatic stacking machines	3536 pt.	Hoists, cranes, and monorails
	Industrial trucks and tractors	3537	Industrial trucks and tractors
3541	Machine tools, metal-cutting types	3541 pt.	Machine tools, metal-cutting types
3548	Metalworking machinery, n.e.c.:		
	Automotive maintenance equipment, metal-		
	cutting types	3541 pt.	Machine tools, metal-cutting types
	Power driven handtools	3546	Power driven handtools
	Rolling mill machinery	3547	Rolling mill machinery
	Metalworking machinery, n.e.c.	3549	Metalworking machinery, n.e.c.
3561	Pumps and compressors	3561	Pumps and pumping equipment
3562	Ball and roller bearings	3563	Air and gas compressors
3566	Power transmission equipment:	3562 pt.	Ball and roller bearings
	Mounted ball and roller bearings	3562 pt.	Ball and roller bearings
	Speed changers, drives and gears	3566	Speed changers, drives, and gears
	Power transmission equipment, n.e.c.	3568	Power transmission equipment, n.e.c.
3574	Calculating and accounting machines:		
	Other calculating machines	3574	Calculating and accounting machines
	Voting machines and ticket counting machines ..	3579 pt.	Office machines, n.e.c.

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
3579	Office machines, n.e.c.	3579 pt.	Office machines, n.e.c.
3582	Commercial laundry equipment:		
	Commercial laundry equipment, n.e.c.	3582	Commercial laundry equipment
	Coin-operated washers and dryers	3633 pt.	Household laundry equipment
3585	Refrigeration machinery	3585 pt.	Refrigeration and heating equipment
3599	Miscellaneous machinery, except electrical:		
	Metal packing	3293 pt.	Gaskets, packing and sealing devices
	Carburetors, pistons, rings, valves	3592	Carburetors, pistons, rings, valves
	Machinery, except electrical, n.e.c.	3599	Machinery, except electrical, n.e.c.
3611	Electric measuring instruments:		
	Instrument transformers	3612 pt.	Transformers
	Instruments to measure electricity	3825	Instruments to measure electricity
3612	Transformers	3612 pt.	Transformers
3633	Household laundry equipment	3633 pt.	Household laundry equipment
		3645	Residential lighting fixtures
3642	Lighting fixtures	3646	Commercial lighting fixtures
		3647	Vehicular lighting equipment
		3648	Lighting equipment, n.e.c.
3662	Radio and TV communication equipment	3662 pt.	Radio and TV communication equipment
		3675	Electronic capacitors
		3676	Electronic resistors
3679	Electronic components, n.e.c.	3677	Electronic coils and transformers
		3678	Electronic connectors
		3679	Electronic components, n.e.c.
3711	Motor vehicles	3711	Motor vehicles and car bodies
3712	Passenger car bodies		
3713	Truck and bus bodies:		
	Truck and bus bodies, n.e.c.	3713	Truck and bus bodies
	Demountable cargo containers	3715 pt.	Truck trailers
3715	Truck trailers	3715 pt.	Truck trailers
3722	Aircraft engines and engine parts	3724	Aircraft engines and engine parts
		3764	Space propulsion units and parts
3723	Aircraft propellers and parts	3728 pt.	Aircraft equipment, n.e.c.
3729	Aircraft equipment, n.e.c.:		
	Aircraft equipment	3728 pt.	Aircraft equipment, n.e.c.
	Space vehicle equipment	3769	Space vehicle equipment, n.e.c.
3741	Locomotives and parts	3743	Railroad equipment
3742	Railroad and street cars		

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
3751	Motorcycles, bicycles, and parts:		
	Motorcycles, bicycles, and parts, n.e.c.	3751	Motorcycles, bicycles, and parts
	Golf carts, etc.	3799 pt.	Transportation equipment, n.e.c.
3791	Trailer coaches:		
	Travel trailers and campers, n.e.c.	3792	Travel trailers and campers
	Mobile homes	2451	Mobile homes
3799	Transportation equipment, n.e.c.:		
	Farm trailers and wagons	3523 pt.	Farm machinery and equipment
	Folding tent-type trailers	3792 pt.	Travel trailers and campers
	Transportation equipment, n.e.c.	3799 pt.	Transportation equipment, n.e.c.
3821	Mechanical measuring devices	3823	Process control instruments
		3824	Fluid meters and counting devices
		3829	Measuring and controlling devices, n.e.c.
3831	Optical instruments and lenses	3832 pt.	Optical instruments and lenses
3871	Watches and clocks	3873	Watches, clocks, and watchcases
3872	Watchcases		
3912	Jewelers' findings and materials	3915	Jewelers' materials and lapidary work
3913	Lapidary work		
3941	Games and toys	3944	Games, toys, and children's vehicles
3943	Children's vehicles, except bicycles		
3951	Pens and mechanical pencils	3951 pt.	Pens and mechanical pencils
3953	Marking devices:		
	Felt tip markers	3951 pt.	Pens and mechanical pencils
	Marking devices	3953	Marking devices
3994	Morticians' goods:		
	Burial caskets	3995	Burial caskets (include in "n.e.c.," industry
	Other morticians' goods	Various	of various groups)

¹ No change in content.

² The classification of separate establishments milling or otherwise preparing nonmetallic minerals in this division and in industry 3295 has been clarified. Industry 3295 will include only establishments crushing or grinding or otherwise preparing minerals mined in industry groups 145 and 149, and industry 1472. Establishments crushing or grinding minerals mined in industry groups 142 and 144 and industries 1473 to 1479 are included in those same industries.

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
				(1,000)	(million dollars)	
1911	----	Guns, howitzers, and mortars.....	13	3	3.5	53.6
	3489	Ordnance and accessories, n.e.c.....	13	3	3.5	53.6
1925	----	Complete guided missiles.....	70	57	118.4	2,948.7
	3761	Guided missiles and space vehicles.....	70	57	118.4	2,948.7
1929	----	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
	3483	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
1931	----	Tanks and tank components.....	22	15	5.9	111.7
	3795	Tanks and tank components.....	22	15	5.9	111.7
1941	----	Sighting and fire control equipment.....	18	6	.9	14.2
	3832	Optical instruments and lenses.....	18	6	.9	14.2
1951	----	Small arms.....	82	41	16.1	278.6
	3484	Small arms.....	82	41	16.1	278.6
1961	----	Small arms ammunition.....	62	25	14.0	228.6
	3482	Small arms ammunition.....	62	25	14.0	228.6
1999	----	Ordnance and accessories, n.e.c.....	63	33	21.1	327.4
	3489	Ordnance and accessories, n.e.c.....	63	33	21.1	327.4
2011	----	Meatpacking plants.....	2,472	863	157.1	2,962.9
	2011	Meatpacking plants.....	2,467	858	156.4	2,948.4
	2013	Sausages and other prepared meats.....	5	5	.7	14.5
2013	----	Sausages and other prepared meats.....	1,313	557	58.5	1,105.1
	2011	Meatpacking plants.....	7	5	1.1	19.7
	2013	Sausages and other prepared meats.....	1,306	552	57.4	1,085.4
2015	----	Poultry dressing plants.....	652	462	92.1	892.9
	2016	Poultry dressing plants.....	522	369	77.6	724.4
	2017	Poultry and egg processing.....	130	93	14.6	168.5
2021	2021	Creamery butter.....	231	63	4.0	82.3
2022	2022	Cheese, natural and processed.....	872	281	25.2	492.3
2023	2023	Condensed and evaporated milk.....	283	163	12.3	467.3
2024	2024	Ice cream and frozen desserts.....	697	273	21.1	459.8
2026	2026	Fluid milk.....	2,507	1,287	126.1	2,552.4
2031	----	Canned and cured seafoods.....	310	139	16.0	231.4
	2091	Canned and cured seafoods.....	310	139	16.0	231.4
2032	2032	Canned specialties.....	203	88	29.1	814.6
2033	2033	Canned fruits and vegetables.....	1,038	621	89.8	1,625.1
2034	----	Dehydrated food products.....	178	88	12.4	235.7
	2034	Dehydrated fruits, vegetables, soups.....	178	88	12.4	235.7
2035	2035	Pickles, sauces, and salad dressings.....	495	191	20.8	428.0
2036	----	Fresh or frozen packaged fish.....	519	257	25.0	287.5
	2092	Fresh or frozen packaged fish.....	519	257	25.0	287.5
2037	----	Frozen fruits and vegetables.....	643	401	81.1	1,410.9
	2037	Frozen fruits and vegetables.....	208	190	42.8	694.6
	2038	Frozen specialties.....	435	211	38.3	716.3
2041	2041	Flour and other grain mill products.....	457	181	16.1	509.8
2042	----	Prepared feeds for animals and fowls.....	2,341	767	58.3	1,714.3
	2047	Dog, cat, and other pet food.....	221	113	14.3	613.8
	2048	Prepared feeds, n.e.c.....	2,120	654	44.0	1,100.5
2043	----	Cereal preparations.....	47	26	12.9	688.4
	2043	Cereal breakfast foods.....	47	26	12.9	688.4
2044	2044	Rice milling.....	57	35	4.0	148.3
2045	2045	Blended and prepared flour.....	137	57	7.9	306.8
2046	2046	Wet corn milling.....	41	27	12.1	331.2
2051	2051	Bread, cake, and related products.....	3,318	1,374	193.5	3,518.1
2052	2052	Cookies and crackers.....	315	177	41.1	1,018.9
2061	2061	Raw cane sugar.....	77	62	7.1	151.7
2062	2062	Cane sugar refining.....	33	28	10.9	383.9
2063	2063	Beet sugar.....	61	54	11.5	310.5
2071	----	Confectionery products.....	1,011	394	60.7	1,115.6
	2065	Confectionery products.....	1,011	394	60.7	1,115.6
2072	----	Chocolate and cocoa products.....	48	30	10.0	282.6
	2066	Chocolate and cocoa products.....	48	30	10.0	282.6

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
2073	----	Chewing gum.....	19	16	6.9	228.4
	2067	Chewing gum.....	19	16	6.9	228.4
2082	----	Malt liquors.....	167	130	51.5	1,993.6
	2082	Malt beverages.....	167	130	51.5	1,993.6
2083	2083	Malt.....	40	26	1.7	55.0
2084	2084	Wines, brandy and brandy spirits.....	213	74	9.4	407.9
2085	2085	Distilled liquor, except brandy.....	121	96	18.4	1,024.0
2086	2086	Bottled and canned soft drinks.....	2,683	1,552	121.1	2,336.7
2087	2087	Flavoring extracts and sirups, n.e.c.....	400	115	10.1	871.9
2091	----	Cottonseed oil mills.....	115	84	5.5	88.2
	2074	Cottonseed oil mills.....	115	84	5.5	88.2
2092	----	Soybean oil mills.....	94	74	9.1	350.0
	2075	Soybean oil mills.....	94	74	9.1	350.0
2093	----	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
	2076	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
2094	----	Animal and marine fats and oils.....	511	196	11.6	296.7
	2077	Animal and marine fats and oils.....	511	196	11.6	296.7
2095	2095	Roasted coffee.....	213	104	12.9	825.8
2096	----	Shortening and cooking oils.....	109	86	12.9	512.6
	2079	Shortening and cooking oils.....	109	86	12.9	512.6
2097	2097	Manufactured ice.....	818	87	6.8	91.7
2098	2098	Macaroni and spaghetti.....	194	64	7.3	155.7
2099	2099	Food preparations, n.e.c.....	2,099	658	66.2	1,805.2
2111	2111	Cigarettes.....	20	11	38.1	2,188.4
2121	2121	Cigars.....	124	51	13.5	191.9
2131	2131	Chewing and smoking tobacco.....	37	22	3.3	103.2
2141	2141	Tobacco stemming and redrying.....	91	70	11.4	153.6
2211	2211	Weaving mills, cotton.....	307	227	121.3	1,256.3
2221	----	Weaving mills, synthetics.....	412	341	149.7	1,831.6
	2221	Weaving mills, manmade fiber and silk.....	412	341	149.7	1,831.6
2231	2231	Weaving and finishing mills, wool.....	198	119	19.4	239.4
2241	2241	Narrow fabric mills.....	376	215	27.1	289.0
2251	2251	Women's hosiery, except socks.....	312	217	49.5	438.8
2252	2252	Hosiery, n.e.c.....	415	269	32.6	295.2
2253	2253	Knit outerwear mills.....	917	547	74.4	799.5
2254	2254	Knit underwear mills.....	87	74	26.0	251.5
2256	----	Knit fabric mills.....	919	585	90.0	1,353.8
	2257	Circular knit fabric mills.....	716	430	68.1	1,036.0
	2258	Warp knit fabric mills.....	203	155	22.0	317.8
2259	2259	Knitting mills, n.e.c.....	73	33	3.9	41.8
2261	2261	Finishing plants, cotton.....	196	115	25.7	322.0
2262	----	Finishing plants, synthetics.....	258	189	35.2	521.5
	2262	Finishing plants, manmade fiber and silk.....	258	189	35.2	521.5
2269	2269	Finishing plants, n.e.c.....	201	128	18.5	270.4
2271	2271	Woven carpets and rugs.....	65	18	6.5	93.2
2272	2272	Tufted carpets and rugs.....	379	235	50.1	926.8
2279	2279	Carpets and rugs, n.e.c.....	85	27	3.3	58.2
2281	2281	Yarn mills, except wool.....	424	357	89.6	867.2
2282	2282	Throwing and winding mills.....	212	169	38.0	477.8
2283	2283	Wool yarn mills.....	98	63	8.3	92.7
2284	2284	Thread mills.....	73	45	11.7	141.8
2291	----	Felt goods, n.e.c.....	47	30	5.0	80.5
	2291	Felt goods, except woven felts and hats.....	47	30	5.0	80.5
2292	2292	Lace goods.....	105	29	2.9	29.4
2293	2293	Padding and upholstery filling.....	132	59	4.4	64.5

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
2294	2294	Processed textile waste.....	106	37	3.6	50.9
2295	2295	Coated fabrics, not rubberized.....	203	132	18.0	382.4
2296	2296	Tire cord and fabric.....	18	18	10.0	145.8
2297	----	Scouring and combing plants.....	48	27	3.4	39.1
	2299	Textile goods, n.e.c.....	48	27	3.4	39.1
2298	2298	Cordage and twine.....	156	81	9.0	96.3
2299	----	Textile goods, n.e.c.....	381	119	15.6	260.5
	2297	Nonwoven fabrics.....	84	67	10.8	191.8
	2299	Textile goods, n.e.c.....	297	52	4.8	68.7
2311	----	Men's and boys' suits and coats.....	860	574	125.8	1,369.6
	2311	Men's and boys' suits and coats.....	856	570	124.8	1,342.2
	2329	Men's and boys' clothing, n.e.c.....	4	4	1.0	27.4
2321	2321	Men's and boys' shirts and nightware.....	730	563	113.4	1,003.8
2322	2322	Men's and boys' underwear.....	94	73	16.0	130.9
2323	2323	Men's and boys' neckwear.....	299	135	11.1	143.4
2327	2327	Men's and boys' separate trousers.....	624	428	91.3	784.9
2328	2328	Men's and boys' work clothing.....	503	435	89.6	784.8
2329	2329	Men's and boys' clothing, n.e.c.....	533	362	40.9	366.4
2331	2331	Women's and misses' blouses and waists.....	971	703	63.0	592.4
2335	2335	Women's and misses' dresses.....	5,565	2,978	211.6	1,888.7
2337	2337	Women's and misses' suits and coats.....	1,617	1,022	75.9	839.8
2339	2339	Women's and misses' outerwear, n.e.c.....	1,373	897	82.1	781.0
2341	2341	Women's and children's underwear.....	730	484	77.5	709.0
2342	----	Corsets and allied garments.....	272	193	28.0	340.0
	2342	Brassieres and allied garments.....	272	193	28.0	340.0
2351	2351	Millinery.....	216	52	3.2	33.2
2352	2352	Hats and caps, except millinery.....	280	122	11.3	100.2
2361	2361	Children's dresses and blouses.....	490	353	35.4	335.8
2363	2363	Children's coats and suits.....	165	105	9.2	90.4
2369	2369	Children's outerwear, n.e.c.....	406	265	30.1	282.9
2371	2371	Fur goods.....	797	48	4.7	86.2
2381	2381	Fabric dress and work gloves.....	137	94	11.9	100.3
2384	2384	Robes and dressing gowns.....	179	110	10.0	92.5
2385	2385	Waterproof outer garments.....	258	165	15.4	168.8
2386	2386	Leather and sheep lined clothing.....	187	91	7.0	82.1
2387	2387	Apparel belts.....	297	132	10.3	132.5
2389	2389	Apparel and accessories, n.e.c.....	244	87	7.3	59.7
2391	2391	Curtains and draperies.....	1,592	351	33.9	302.3
2392	2392	Housefurnishings, n.e.c.....	1,112	414	50.3	585.2
2393	2393	Textile bags.....	208	94	7.9	74.5
2394	----	Canvas products.....	860	146	12.9	130.3
	2394	Canvas and related products.....	860	146	12.9	130.3
2395	2395	Pleating and stitching.....	898	205	16.7	174.7
2396	2396	Automotive and apparel trimmings.....	668	203	27.6	530.8
2397	2397	Schiffli machine embroideries.....	451	56	5.5	75.0
2399	2399	Fabricated textile products, n.e.c.....	822	286	31.4	315.5
2411	2411	Logging camps and logging contractors.....	13,238	696	80.0	1,163.4
2421	2421	Sawmills and planing mills, general.....	8,071	1,717	166.6	2,906.0
2426	2426	Hardwood dimension and flooring.....	612	285	25.6	223.0
2429	2429	Special product sawmills, n.e.c.....	447	86	6.4	80.4
2431	----	Millwork.....	5,327	945	87.5	1,163.7
	2431	Millwork.....	2,434	720	70.5	962.7
	2434	Wood kitchen cabinets.....	893	225	17.1	201.0

APPENDIX B-Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
2432	----	Veneer and plywood.....	598	479	68.8	1,276.2
	2435	Hardwood veneer and plywood.....	366	254	25.1	340.8
	2436	Softwood veneer and plywood.....	232	225	43.7	935.4
2433	----	Prefabricated wood structures.....	988	441	37.8	639.9
	2439	Structural wood members, n.e.c.....	678	196	12.6	182.8
	2452	Prefabricated wood buildings.....	310	245	25.2	457.1
2441	----	Nailed wooden boxes and shook.....	436	130	10.7	103.8
	2441	Nailed wood boxes and shook.....	436	130	10.7	103.8
2442	----	Wirebound boxes and crates.....	136	58	7.7	71.2
	2449	Wood containers, n.e.c.....	136	58	7.7	71.2
2443	----	Veneer and plywood containers.....	60	25	1.9	13.1
	2449	Wood containers, n.e.c.....	60	25	1.9	13.1
2445	----	Cooperage.....	72	17	2.3	29.8
	2449	Wood containers, n.e.c.....	72	17	2.3	29.8
2491	2491	Wood preserving.....	399	168	11.3	175.8
2499	----	Wood products, n.e.c.....	3,657	982	85.0	1,094.5
	2448	Wood pallets and skids.....	456	271	14.3	140.9
	2492	Particleboard.....	68	65	7.7	144.5
	2499	Wood products, n.e.c.....	3,133	646	63.0	809.1
2511	----	Wood household furniture.....	3,354	1,063	174.4	2,019.5
	2434	Wood kitchen cabinets.....	903	171	21.7	285.7
	2511	Wood household furniture.....	2,348	827	133.8	1,556.9
	2517	Wood TV and radio cabinets.....	103	65	18.9	176.9
2512	----	Upholstered household furniture.....	1,629	849	98.0	1,153.1
	2426	Hardwood dimension and flooring.....	321	79	5.9	49.1
	2512	Upholstered household furniture.....	1,308	770	92.0	1,104.0
2514	2514	Metal household furniture.....	467	230	34.4	447.2
2515	2515	Mattresses and bedsprings.....	977	370	31.4	479.9
2519	2519	Household furniture, n.e.c.....	166	73	6.9	95.6
2521	2521	Wood office furniture.....	240	104	11.5	146.7
2522	2522	Metal office furniture.....	193	118	27.8	513.2
2531	----	Public building furniture.....	421	194	21.0	288.3
	2531	Public building and related furniture.....	421	194	21.0	288.3
2541	2541	Wood partitions and fixtures.....	1,503	413	31.2	458.6
2542	2542	Metal partitions and fixtures.....	507	239	26.2	412.4
2591	----	Venetian blinds and shades.....	505	66	12.1	198.2
	2591	Drapery hardware and blinds and shades.....	505	66	12.1	198.2
2599	2599	Furniture and fixtures, n.e.c.....	494	177	14.5	211.7
2611	2611	Pulpmills.....	60	35	10.6	306.9
2621	2621	Papermills, except building paper.....	349	295	129.9	2,909.3
2631	2631	Paperboard mills.....	273	248	68.5	1,994.4
2641	2641	Paper coating and glazing.....	426	217	37.2	984.4
2642	2642	Envelopes.....	247	183	22.9	347.1
2643	2643	Bags, except textile bags.....	583	331	48.8	840.5
2644	----	Wallpaper.....	83	35	2.9	50.5
	2649	Converted paper products, n.e.c.....	83	35	2.9	50.5
2645	2645	Die-cut paper and board.....	374	159	15.2	301.6
2646	2646	Pressed and molded pulp goods.....	49	38	6.1	100.6
2647	2647	Sanitary paper products.....	108	85	26.3	882.8
2649	----	Converted paper products, n.e.c.....	655	277	29.9	500.7
	2648	Stationery products.....	431	131	14.7	225.6
	2649	Converted paper products, n.e.c.....	224	146	15.1	275.1
2651	2651	Folding paperboard boxes.....	544	376	45.3	739.7
2652	2652	Setup paperboard boxes.....	397	269	18.1	195.9
2653	2653	Corrugated and solid fiber boxes.....	1,265	959	107.9	1,736.9
2654	2654	Sanitary food containers.....	251	193	35.1	659.8

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
2655	----	Fiber cans, drums, and related materials.....	282	182	17.3	266.4
	2655	Fiber cans, drums, and similar products.....	282	182	17.3	266.4
2661	2661	Building paper and board mills.....	92	74	11.6	246.5
2711	2711	Newspapers.....	8,116	2,119	348.5	6,219.9
2721	2721	Periodicals.....	2,534	452	66.5	2,109.9
2731	2731	Book publishing.....	1,205	307	57.1	1,935.8
2732	2732	Book printing.....	700	287	40.9	604.5
2741	2741	Miscellaneous publishing.....	2,041	272	38.8	775.8
2751	----	Commercial printing, except lithographic.....	13,333	1,259	150.3	2,375.2
	2751	Commercial printing, letterpress.....	13,198	1,171	130.1	2,003.0
	2754	Commercial printing, gravure.....	135	88	20.0	372.2
2752	----	Commercial printing, lithographic.....	8,724	2,259	193.0	3,340.2
	2752	Commercial printing, lithographic.....	8,388	2,135	184.0	3,155.1
	2795	Lithographic platemaking services.....	336	124	8.9	185.1
2753	2753	Engraving and plate printing.....	560	132	9.6	152.4
2761	2761	Manifold business forms.....	667	376	38.6	823.6
2771	2771	Greeting card publishing.....	199	82	23.5	527.0
2782	2782	Blankbooks and looseleaf binders.....	461	240	26.6	390.6
2789	2789	Bookbinding and related work.....	1,004	301	25.1	296.2
2791	2791	Typesetting.....	1,887	373	26.0	426.0
2793	2793	Photoengraving.....	590	135	9.9	191.7
2794	2794	Electrotyping and stereotyping.....	81	24	1.7	28.5
2812	2812	Alkalies and chlorine.....	48	39	13.3	455.6
2813	2813	Industrial gases.....	503	138	9.6	466.7
2815	----	Cyclic intermediates and crudes.....	174	118	28.2	929.7
	2865	Cyclic crudes and intermediates.....	174	118	28.2	929.7
2816	2816	Inorganic pigments.....	114	69	12.8	382.6
2818	----	Industrial organic chemicals, n.e.c.....	521	302	103.7	5,073.6
	2869	Industrial organic chemicals, n.e.c.....	514	295	102.4	4,988.0
	2873	Nitrogenous fertilizers.....	7	7	1.3	85.6
2819	----	Industrial inorganic chemicals, n.e.c.....	788	382	76.6	2,604.1
	2819	Industrial inorganic chemicals, n.e.c.....	384	264	63.8	2,038.2
	2842	Polishes and sanitation goods.....	329	51	3.9	181.1
	2873	Nitrogenous fertilizers.....	66	61	8.1	362.0
	2874	Phosphatic fertilizers.....	9	6	.9	22.8
2821	----	Plastics materials and resins.....	979	483	82.0	2,766.8
	2821	Plastics materials and resins.....	323	263	54.8	2,160.5
	2891	Adhesives and sealants.....	45	23	1.6	39.0
	3079	Miscellaneous and plastics products.....	611	197	25.6	567.3
2822	2822	Synthetic rubber.....	59	34	11.8	491.7
2823	2823	Cellulosic manmade fibers.....	18	12	17.1	243.5
2824	2824	Organic fibers, noncellulosic.....	61	55	78.2	2,039.8
2831	2831	Biological products.....	182	62	10.1	231.4
2833	2833	Medicinals and botanicals.....	140	51	7.8	260.0
2834	2834	Pharmaceutical preparations.....	756	312	112.0	5,639.5
2841	2841	Soap and other detergents.....	642	199	31.5	2,038.8
2842	----	Polishes and sanitation goods.....	868	207	22.0	978.6
	2842	Polishes and sanitation goods.....	779	192	21.1	937.0
	2879	Agricultural chemicals, n.e.c.....	89	15	.8	41.6
2843	2843	Surface active agents.....	178	86	6.9	209.5
2844	2844	Toilet preparations.....	645	204	48.2	2,834.1
2851	----	Paints and allied products.....	1,637	712	68.5	1,869.7
	2851	Paints and allied products.....	1,599	687	65.9	1,791.7
	2891	Adhesives and sealants.....	38	25	2.6	78.0

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
2861	2861	Gum and wood chemicals.....	139	41	5.9	155.4
2871	----	Fertilizers.....	157	116	14.4	413.1
	2873	Nitrogenous fertilizers.....	7	5	.1	2.9
	2874	Phosphatic fertilizers.....	136	109	14.0	403.6
	2875	Fertilizers, mixing only.....	14	2	.3	6.6
2872	----	Fertilizers, mixing only.....	613	186	11.1	257.1
	2875	Fertilizers, mixing only.....	613	186	11.1	257.1
2879	2879	Agricultural chemicals, n.e.c.....	299	98	11.4	557.3
2891	----	Adhesives and gelatin.....	358	131	11.0	341.5
	2891	Adhesives and sealants.....	342	118	9.0	260.1
	2899	Chemical preparations, n.e.c.....	16	13	1.9	81.4
2892	2892	Explosives.....	92	50	18.6	281.7
2893	2893	Printing ink.....	407	145	9.6	232.0
2895	2895	Carbon black.....	37	33	2.9	137.6
2899	2899	Chemical preparations, n.e.c.....	1,590	347	35.1	1,043.3
2911	2911	Petroleum refining.....	323	277	100.8	4,594.7
2951	2951	Paving mixtures and blocks.....	964	169	13.9	403.1
2952	2952	Asphalt felts and coatings.....	235	140	15.6	443.3
2992	2992	Lubricating oils and greases.....	443	117	8.1	295.8
2999	2999	Petroleum and coal products, n.e.c.....	51	17	1.1	56.3
3011	3011	Tires and inner tubes.....	206	126	107.5	3,070.8
3021	----	Rubber footwear.....	81	50	28.1	332.5
	3021	Rubber and plastics footwear.....	81	50	28.1	332.5
3031	3031	Reclaimed rubber.....	20	9	.9	15.6
3069	----	Fabricated rubber products, n.e.c.....	1,294	746	142.6	2,386.2
	2891	Adhesives and sealants.....	38	21	1.6	49.6
	3041	Rubber and plastics hose and belting.....	74	62	30.1	580.1
	3069	Fabricated rubber products, n.e.c.....	1,116	606	99.0	1,573.1
	3293	Gaskets, packing and sealing devices.....	66	57	11.9	183.4
3079	----	Miscellaneous plastics products.....	7,129	3,138	326.6	5,513.8
	3021	Rubber and plastics footwear.....	26	24	3.5	37.8
	3041	Rubber and plastics hose and belting.....	16	11	1.8	38.6
	3079	Miscellaneous plastics products.....	7,087	3,103	321.3	5,437.4
3111	3111	Leather tanning and finishing.....	517	223	25.7	368.3
3121	----	Industrial leather belting.....	53	14	1.0	15.1
	3199	Leather goods, n.e.c.....	50	11	.8	13.0
	3293	Gaskets, packing and sealing devices.....	3	3	.2	2.1
3131	----	Footwear cut stock.....	248	121	8.7	86.2
	3131	Boot and shoe cut stock and findings.....	248	121	8.7	86.2
3141	----	Shoes, except rubber.....	826	646	167.6	1,710.5
	3143	Men's footwear, except athletic.....	221	197	61.5	674.4
	3144	Women's footwear, except athletic.....	422	316	77.4	763.6
	3149	Footwear, except rubber, n.e.c.....	183	133	28.7	272.5
3142	3142	House slippers.....	91	66	8.5	85.7
3151	3151	Leather gloves and mittens.....	106	60	4.9	43.0
3161	3161	Luggage.....	277	130	17.1	194.1
3171	3171	Women's handbags and purses.....	444	214	22.2	201.5
3172	----	Personal leather goods.....	244	98	11.5	143.7
	3172	Personal leather goods, n.e.c.....	244	98	11.5	143.7
3199	3199	Leather goods, n.e.c.....	398	88	6.3	71.4
3211	3211	Flat glass.....	32	30	20.9	662.1
3221	3221	Glass containers.....	117	115	72.9	1,399.7
3229	3229	Pressed and blown glass, n.e.c.....	252	110	45.9	941.4
3231	3231	Products of purchased glass.....	913	284	33.7	668.9
3241	3241	Cement, hydraulic.....	198	171	30.0	1,153.3

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
3251	3251	Brick and structural clay tile.....	417	302	24.1	336.4
3253	3253	Ceramic wall and floor tile.....	83	56	8.3	112.3
3255	3255	Clay refractories.....	156	101	11.2	202.1
3259	3259	Structural clay products, n.e.c.....	119	70	8.2	119.8
3261	3261	Vitreous plumbing fixtures.....	59	40	9.6	186.8
3262	3262	Vitreous china food utensils.....	34	20	5.9	67.4
3263	3263	Fine earthenware food utensils.....	18	15	6.8	56.2
3264	3264	Porcelain electrical supplies.....	83	64	13.4	190.4
3269	3269	Pottery products, n.e.c.....	426	95	9.1	99.9
3271	3271	Concrete block and brick.....	1,388	416	22.8	438.5
3272	3272	Concrete products, n.e.c.....	3,595	923	67.7	1,190.1
3273	3273	Ready-mixed concrete.....	4,915	1,328	85.7	1,756.7
3274	3274	Lime.....	103	69	5.7	129.3
3275	3275	Gypsum products.....	114	84	11.2	325.1
3281	3281	Cut stone and stone products.....	908	192	15.0	191.4
3291	3291	Abrasive products.....	392	167	24.5	529.6
3292	3292	Asbestos products.....	132	90	20.2	409.2
3293	----	Gaskets and insulation.....	304	127	14.6	219.6
	3292	Asbestos products.....	10	7	.8	16.9
	3293	Gaskets, packing and sealing devices.....	294	120	13.8	202.8
3295	3295	Minerals, ground or treated.....	488	152	9.5	237.2
3296	3296	Mineral wool.....	108	75	18.0	441.5
3297	3297	Nonclay refractories.....	90	60	8.1	191.1
3299	3299	Nonmetallic mineral products, n.e.c.....	491	81	6.3	104.7
3312	3312	Blast furnaces and steel mills.....	364	251	469.1	10,304.7
3313	3313	Electrometallurgical products.....	40	31	9.5	217.2
3315	3315	Steel wire and related products.....	289	199	30.6	583.5
3316	3316	Cold finishing of steel shapes.....	125	93	20.1	504.6
3317	3317	Steel pipe and tubes.....	152	122	23.6	506.1
3321	3321	Gray iron foundries.....	993	723	138.4	2,257.0
3322	3322	Malleable iron foundries.....	73	64	22.5	342.6
3323	----	Steel foundries.....	334	263	57.9	881.6
	3324	Steel investment foundries.....	74	62	11.2	175.6
	3325	Steel foundries, n.e.c.....	260	201	46.7	706.0
3331	3331	Primary copper.....	31	31	17.2	487.8
3332	3332	Primary lead.....	16	15	2.8	128.7
3333	3333	Primary zinc.....	15	15	6.3	121.6
3334	3334	Primary aluminum.....	31	31	25.6	816.0
3339	3339	Primary nonferrous metals, n.e.c.....	84	32	6.7	151.5
3341	3341	Secondary nonferrous metals.....	381	184	17.8	410.9
3351	3351	Copper rolling and drawing.....	149	117	37.8	800.3
3352	----	Aluminum rolling and drawing.....	246	192	63.6	1,177.1
	3353	Aluminum sheet, plate, and foil.....	50	49	31.3	692.3
	3354	Aluminum extruded products.....	180	128	27.7	427.6
	3355	Aluminum rolling and drawing, n.e.c.....	16	15	4.6	57.3
3356	3356	Nonferrous rolling and drawing, n.e.c.....	167	97	18.1	374.1
3357	3357	Nonferrous wiredrawing and insulating.....	341	278	68.8	1,448.0
3361	----	Aluminum castings.....	1,005	430	45.7	718.3
	3361	Aluminum foundries.....	1,005	430	45.7	718.3
3362	----	Brass, bronze, and copper castings.....	507	195	15.4	236.9
	3362	Brass, bronze, and copper foundries.....	507	195	15.4	236.9
3369	----	Nonferrous castings, n.e.c.....	329	167	20.3	314.0
	3369	Nonferrous foundries, n.e.c.....	329	167	20.3	314.0

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
3391	----	Iron and steel forgings.....	280	180	34.3	661.8
	3462	Iron and steel forgings.....	280	180	34.3	661.8
3392	----	Nonferrous forgings.....	46	33	5.8	104.0
	3463	Nonferrous forgings.....	46	33	5.8	104.0
3399	----	Primary metal products, n.e.c.....	1,120	371	25.1	475.6
	3398	Metal heat treating.....	952	266	17.2	310.6
	3399	Primary metal products, n.e.c.....	168	105	7.9	165.0
3411	3411	Metal cans.....	396	309	68.5	1,815.8
3421	3421	Cutlery.....	134	69	13.4	322.3
3423	3423	Hand and edge tools, n.e.c.....	626	255	39.3	780.0
3425	3425	Handsaws and saw blades.....	91	52	6.6	127.5
3429	3429	Hardware, n.e.c.....	1,053	482	99.9	2,023.6
3431	3431	Metal sanitary ware.....	95	50	11.2	208.2
3432	3432	Plumbing fittings and brass goods.....	230	112	18.6	361.8
3433	----	Heating equipment, except electric.....	471	219	40.6	752.2
	3433	Heating equipment, except electric.....	432	191	30.9	561.6
	3585	Refrigeration and heating equipment.....	39	28	9.7	190.5
3441	3441	Fabricated structural metal.....	2,154	1,094	104.3	1,730.7
3442	3442	Metal doors, sash, and trim.....	1,558	646	70.7	1,003.7
3443	3443	Fabricated platework (boiler shops).....	1,486	795	93.0	1,758.7
3444	3444	Sheet metalwork.....	3,117	933	74.0	1,299.9
3446	3446	Architectural metalwork.....	1,459	250	20.9	311.8
3449	----	Miscellaneous metalwork.....	577	308	32.0	638.1
	3448	Prefabricated metal buildings.....	159	88	12.5	275.9
	3449	Miscellaneous metalwork.....	418	220	19.5	362.2
3451	3451	Screw machine products.....	1,804	612	40.5	648.5
3452	3452	Bolts, nuts, rivets, and washers.....	678	396	60.1	1,196.8
3461	----	Metal stampings.....	2,860	1,392	223.2	4,288.3
	3465	Automotive stampings.....	453	364	123.3	2,663.8
	3466	Crowns and closures.....	53	48	8.1	166.7
	3469	Metal stampings, n.e.c.....	2,356	982	92.0	1,461.0
3471	3471	Plating and polishing.....	3,264	825	54.6	741.2
3479	3479	Metal coating and allied services.....	1,497	372	27.6	379.2
3481	----	Miscellaneous fabricated wire products.....	1,494	627	56.8	844.5
	3495	Wire springs.....	284	216	23.7	340.7
	3496	Miscellaneous fabricated wire products.....	1,211	412	33.2	504.4
3491	----	Metal barrels, drums, and pails.....	157	99	10.2	188.8
	3412	Metal barrels, drums, and pails.....	157	99	10.2	188.8
3492	----	Safes and vaults.....	44	19	4.1	79.0
	3499	Fabricated metal products, n.e.c.....	44	19	4.1	79.0
3493	----	Steel springs.....	110	53	8.5	149.7
	3493	Steel springs, except wire.....	110	53	8.5	149.7
3494	3494	Valves and pipe fittings.....	780	464	94.3	1,751.2
3496	----	Collapsible tubes.....	20	17	2.6	29.0
	3499	Fabricated metal products, n.e.c.....	20	17	2.6	29.0
3497	3497	Metal foil and leaf.....	63	40	5.4	126.5
3498	3498	Fabricated pipe and fittings.....	423	202	17.5	363.1
3499	3499	Fabricated metal products, n.e.c.....	2,279	617	55.1	939.5
3511	----	Steam engines and turbines.....	75	46	46.2	1,225.3
	3511	Turbines and turbine generator sets.....	75	46	46.2	1,225.3
3519	3519	Internal combustion engines, n.e.c.....	178	108	69.9	1,674.2
3522	----	Farm machinery.....	1,583	625	122.5	2,648.0
	3523	Farm machinery and equipment.....	1,473	539	101.8	2,195.4
	3524	Lawn and garden equipment.....	110	86	20.7	453.2

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(number)	(number)	(1,000)	(million dollars)
3531	3531	Construction machinery.....	748	387	133.8	3,130.7
3532	3532	Mining machinery.....	240	124	21.3	393.2
3533	3533	Oilfield machinery.....	315	159	35.9	788.6
3534	3534	Elevators and moving stairways.....	154	88	15.0	310.2
3535	3535	Conveyors and conveying equipment.....	492	243	27.2	540.1
3536	3536	Hoists, cranes, and monorails.....	188	92	16.3	274.7
3537	3537	Industrial trucks and tractors.....	380	135	25.8	524.7
3541	3541	Machine tools, metal-cutting types.....	894	275	52.5	901.7
3542	----	Machine tools, metal-forming types.....	383	162	24.1	417.7
	3542	Machine tools, metal-forming types.....	383	162	24.1	417.7
3544	3544	Special dies, tools, jigs, and fixtures.....	6,616	1,266	97.8	1,797.4
3545	3545	Machine tool accessories.....	1,231	413	46.7	876.1
3548	----	Metalworking machinery, n.e.c.....	528	237	47.1	908.8
	3546	Power driven handtools.....	88	65	23.1	434.5
	3547	Rolling mill machinery.....	47	38	10.4	206.4
	3549	Metalworking machinery, n.e.c.....	393	134	13.6	267.9
3551	3551	Food products machinery.....	688	290	31.9	605.2
3552	3552	Textile machinery.....	579	225	32.7	487.9
3553	3553	Woodworking machinery.....	242	109	13.7	285.1
3554	3554	Paper industries machinery.....	218	109	15.3	254.0
3555	3555	Printing trades machinery.....	574	173	23.9	503.6
3559	3559	Special industry machinery, n.e.c.....	1,384	525	72.6	1,596.1
3561	----	Pumps and compressors.....	643	324	78.5	1,563.1
	3561	Pumps and pumping equipment.....	559	260	55.5	1,095.6
	3563	Air and gas compressors.....	84	64	22.9	467.5
3562	3562	Ball and roller bearings.....	132	92	49.2	898.7
3564	3564	Blowers and fans.....	396	172	23.5	468.8
3565	3565	Industrial patterns.....	1,021	97	8.5	161.0
3566	----	Power transmission equipment.....	505	284	51.9	986.6
	3562	Ball and roller bearings.....	4	2	1.8	33.2
	3566	Speed changers, drives, and gears.....	346	155	22.5	409.0
	3568	Power transmission equipment, n.e.c.....	155	127	27.7	544.4
3567	3567	Industrial furnaces and ovens.....	266	108	13.6	244.3
3569	3569	General industrial machinery, n.e.c.....	901	360	37.0	697.7
3572	----	Typewriters.....	21	12	12.4	371.3
	3579	Office machines, n.e.c.....	21	12	12.5	371.3
3573	3573	Electronic computing equipment.....	602	355	144.8	3,497.6
3574	----	Calculating and accounting machines.....	82	33	23.2	421.6
	3574	Calculating and accounting machines.....	79	30	22.5	407.0
	3579	Office machines, n.e.c.....	3	3	.7	14.5
3576	----	Scales and balances.....	97	44	6.7	129.7
	3576	Scales and balances, except laboratory.....	97	44	6.7	129.7
3579	3579	Office machines, n.e.c.....	193	82	21.3	484.3
3581	3581	Automatic merchandising machines.....	125	48	10.5	183.4
3582	----	Commercial laundry equipment.....	110	49	5.2	93.6
	3582	Commercial laundry equipment.....	107	47	4.8	88.2
	3633	Household laundry equipment.....	3	2	.4	5.4
3585	----	Refrigeration machinery.....	735	415	141.2	3,326.9
	3585	Refrigeration and heating equipment.....	735	415	141.2	3,326.9
3586	3586	Measuring and dispensing pumps.....	57	33	7.2	134.1
3589	3589	Service industry machines, n.e.c.....	706	232	24.4	503.6
3599	----	Miscellaneous machinery, except electrical.....	16,411	2,022	186.2	3,055.8
	3293	Gaskets, packing and sealing devices.....	11	4	1.8	40.3
	3592	Carburetors, pistons, rings, valves.....	113	72	26.7	500.0
	3599	Machinery, except electrical, n.e.c.....	16,287	1,946	157.8	2,515.5
3611	----	Electric measuring instruments.....	653	271	55.6	1,059.4
	3612	Transformers.....	8	7	.9	15.9
	3825	Instruments to measure electricity.....	645	265	54.7	1,046.8

APPENDIX B-Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(number)	(number)	(1,000)	(million dollars)
3612	3612	Transformers.....	208	129	45.9	741.4
3613	3613	Switchgear and switchboard apparatus.....	568	283	69.2	1,303.0
3621	3621	Motors and generators.....	425	257	90.3	1,475.2
3622	3622	Industrial controls.....	590	218	51.1	908.4
3623	----	Welding apparatus.....	166	80	15.5	353.5
	3623	Welding apparatus, electric.....	166	80	15.5	353.5
3624	3624	Carbon and graphite products.....	72	44	11.3	217.4
3629	3629	Electrical industrial apparatus, n.e.c.....	258	121	20.2	270.0
3631	3631	Household cooking equipment.....	84	51	23.3	412.0
3632	3632	Household refrigerators and freezers.....	36	25	34.1	790.8
3633	3633	Household laundry equipment.....	26	22	23.2	679.3
3634	3634	Electric housewares and fans.....	299	167	51.3	909.2
3635	3635	Household vacuum cleaners.....	36	24	11.2	299.5
3636	3636	Sewing machines.....	75	18	5.3	124.6
3639	3639	Household appliances, n.e.c.....	85	48	14.0	341.4
3641	3641	Electric lamps.....	143	72	31.5	724.4
3642	----	Lighting fixtures.....	1,174	544	71.8	1,298.3
	3645	Residential lighting fixtures.....	701	278	26.5	390.2
	3646	Commercial lighting fixtures.....	236	140	18.8	350.4
	3647	Vehicular lighting equipment.....	47	31	13.6	299.8
	3648	Lighting equipment, n.e.c.....	190	95	12.7	254.3
3643	3643	Current-carrying wiring devices.....	413	222	50.4	792.1
3644	3644	Noncurrent-carrying wiring devices.....	179	117	25.7	490.8
3651	3651	Radio and TV receiving sets.....	372	164	86.5	1,807.8
3652	3652	Phonograph records.....	567	119	20.3	375.6
3661	3661	Telephone and telegraph apparatus.....	203	110	134.4	2,650.1
3662	3662	Radio and TV communication equipment.....	1,773	921	319.2	5,803.1
3671	3671	Electron tubes, receiving type.....	25	13	11.4	173.8
3672	----	Cathode ray picture tubes.....	75	21	15.2	345.5
	3672	Cathode ray television picture tubes.....	75	21	15.2	345.5
3673	3673	Electron tubes, transmitting.....	53	38	20.5	342.8
3674	----	Semiconductors.....	327	198	97.6	1,735.1
	3674	Semiconductors and related devices.....	327	198	97.6	1,735.1
3679	----	Electronic components, n.e.c.....	2,382	1,164	190.9	2,713.6
	3675	Electronic capacitors.....	113	101	27.6	298.6
	3676	Electronic resistors.....	86	78	20.5	263.5
	3677	Electronic coils and transformers.....	248	206	24.2	228.7
	3678	Electronic connectors.....	91	79	18.1	345.6
	3679	Electronic components, n.e.c.....	1,844	700	100.5	1,577.2
3691	3691	Storage batteries.....	212	120	22.1	477.8
3692	3692	Primary batteries, dry and wet.....	48	31	8.4	221.6
3693	3693	X-ray apparatus and tubes.....	104	54	12.1	311.3
3694	3694	Engine electrical equipment.....	290	143	57.9	1,212.6
3699	----	Electrical equipment, n.e.c.....	995	189	19.3	263.9
	3699	Electrical equipment and supplies, n.e.c.....	995	189	19.3	263.9
3711	----	Motor vehicles.....	231	119	339.2	11,782.5
	3711	Motor vehicles and car bodies.....	231	119	339.2	11,782.5
3713	----	Truck and bus bodies.....	778	346	41.8	648.5
	3713	Truck and bus bodies.....	778	346	41.8	648.5
3714	3714	Motor vehicle parts and accessories.....	2,119	935	400.9	9,164.7
3715	3715	Truck trailers.....	255	139	24.7	449.3

APPENDIX B—Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
3721	3721	Aircraft.....	168	86	231.8	5,083.0
3722	----	Aircraft engines and engine parts.....	261	184	125.5	2,498.3
	3724	Aircraft engines and engine parts.....	232	156	104.7	1,991.7
	3764	Space propulsion units and parts.....	29	28	20.8	506.6
3729	----	Aircraft equipment, n.e.c.....	742	352	123.1	2,562.8
	3728	Aircraft equipment, n.e.c.....	694	313	102.2	2,048.9
	3769	Space vehicle equipment, n.e.c.....	48	39	20.9	513.9
3731	3731	Ship building and repairing.....	455	277	144.6	1,881.3
3732	3732	Boat building and repairing.....	1,777	368	40.6	516.8
3741	----	Locomotives and parts.....	34	16	19.6	591.1
	3743	Railroad equipment.....	34	16	19.6	591.1
3742	----	Railroad and street cars.....	129	87	31.2	522.3
	3743	Railroad equipment.....	129	87	31.2	522.3
3751	----	Motorcycles, bicycles, and parts.....	226	53	17.7	316.6
	3751	Motorcycles, bicycles, and parts.....	222	52	17.6	315.2
	3799	Transportation equipment, n.e.c.....	4	1	.1	1.4
3791	----	Trailer coaches.....	1,705	968	106.7	1,485.5
	2451	Mobile homes.....	683	589	71.9	1,033.9
	3713	Truck and bus bodies.....	8	8	.8	11.2
	3792	Travel trailers and campers.....	1,000	362	33.3	435.4
	3799	Transportation equipment, n.e.c.....	14	9	.6	5.0
3799	----	Transportation equipment, n.e.c.....	588	230	21.9	322.8
	3523	Farm machinery and equipment.....	75	25	2.8	52.7
	3792	Travel trailers and campers.....	30	23	3.7	44.5
	3799	Transportation equipment, n.e.c.....	483	182	15.4	225.7
3811	3811	Engineering and scientific instruments.....	739	262	36.7	653.2
3821	----	Mechanical measuring devices.....	843	324	68.8	1,189.0
	3823	Process control instruments.....	187	128	35.6	620.4
	3824	Fluid meters and counting devices.....	61	43	8.8	180.9
	3829	Measuring and controlling devices, n.e.c.....	595	153	24.6	394.9
3822	----	Automatic temperature controls.....	131	62	30.7	511.8
	3822	Environmental controls.....	131	62	30.7	511.8
3831	----	Optical instruments and lenses.....	476	140	17.9	370.1
	3832	Optical instruments and lenses.....	476	140	17.9	370.1
3841	3841	Surgical and medical instruments.....	506	199	34.5	630.0
3842	3842	Surgical appliances and supplies.....	872	256	43.9	929.0
3843	3843	Dental equipment and supplies.....	429	107	12.4	262.3
3851	3851	Ophthalmic goods.....	499	125	26.6	416.3
3861	3861	Photographic equipment and supplies.....	627	225	96.0	4,087.9
3871	----	Watches and clocks.....	165	78	27.2	423.0
	3873	Watches, clocks, and watchcases.....	165	78	27.2	423.0
3872	----	Watchcases.....	37	21	3.6	42.9
	3873	Watches, clocks, and watchcases.....	37	21	3.6	42.9
3911	3911	Jewelry, precious metal.....	1,524	315	32.6	536.0
3912	----	Jewelers' findings and materials.....	239	63	5.7	75.2
	3915	Jewelers' materials and lapidary work.....	239	63	5.7	75.2
3913	----	Lapidary work.....	328	24	2.3	41.1
	3915	Jewelers' materials and lapidary work.....	328	24	2.3	41.1
3914	3914	Silverware and plated ware.....	206	72	13.1	206.8
3931	----	Musical instruments and parts.....	344	111	24.5	339.3
	3931	Musical instruments.....	344	111	24.5	339.3
3941	----	Games and toys.....	633	267	58.0	940.2
	3944	Games, toys, and children's vehicles.....	633	267	58.0	940.2
3942	3942	Dolls.....	243	105	10.2	98.3
3943	----	Children's vehicles, except bicycles.....	31	17	3.5	40.3
	3944	Games, toys, and children's vehicles.....	31	17	3.5	40.3

APPENDIX B-Continued

PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)			(1,000)	(million dollars)
3949	3949	Sporting and athletic goods, n.e.c.....	1,553	463	61.0	920.4
3951	3951	Pens and mechanical pencils.....	111	59	10.2	200.2
3952	3952	Lead pencils and art goods.....	144	49	7.1	108.2
3953	----	Marking devices.....	627	104	8.7	435.1
	3951	Pens and mechanical pencils.....	6	5	.7	13.5
	3953	Marking devices.....	621	99	8.1	121.5
3955	3955	Carbon paper and inked ribbons.....	84	52	5.7	113.4
3961	3961	Costume jewelry.....	766	208	21.4	275.7
3962	3962	Artificial flowers.....	263	53	4.8	57.5
3963	----	Buttons.....	186	51	4.0	51.8
	3963	Buttons.....	186	51	4.0	51.8
3964	3964	Needles, pins, and fasteners.....	267	125	20.2	334.5
3991	3991	Brooms and brushes.....	450	166	17.5	235.5
3993	3993	Signs and advertising displays.....	3,287	637	49.8	747.7
3994	----	Morticians' goods.....	515	189	14.8	210.3
	3995	Burial caskets.....	515	189	14.8	210.3
3996	3996	Hard surface floor coverings.....	20	11	5.8	212.0
3999	----	Manufactures, n.e.c.....	3,367	614	65.1	897.2
	3999	Manufacturing industries, n.e.c.....	3,367	614	65.1	897.2

APPENDIX C. Reporting Forms

This appendix contains reproductions of a representative selection of the reporting forms used in the 1972 economic censuses, with emphasis on the Census of Manufactures. The uses of each of them is described in the Introduction, section 7.

APPENDIX C -Continued

DUE DATE: 20 DAYS AFTER RECEIPT OF FORM

O.M.B. No. 41-R2751; Approval Expires December 31, 1974

<p>FORM 17-30-73)</p> <p>NC-X1A (Item 1A)</p>	<p>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS</p>	<p>1973 REPORT OF COMPANY ORGANIZATION</p>
<p>NOTE - The purpose of this form is to obtain an accurate and up-to-date list of your establishments, i.e., separate business locations that were in operation, or under construction during part or all of 1973. This list should include establishments of your company and each of its subsidiaries. To make it easier for you to complete this report, we have prelisted information that you have previously provided to the Census Bureau.</p>		
<p style="text-align: center;">READ THE INSTRUCTIONS ON THE REVERSE SIDE BEFORE COMPLETING THIS REPORT</p>		

Item 1 - EMPLOYER IDENTIFICATION NUMBERS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT

This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries in reporting either Federal employment taxes (IRS forms 941, 943, or CT-1) or Federal income returns (IRS forms 1065, 1120, 1120S, or 990C).

In Item 1A, based on Census records, we have prelisted (in numeric sequence) all EI numbers and their associated names and addresses where available. Bring this list up-to-date by correcting the prelisted EI number and name and address information in column (a), and completing columns (b) through (d) as indicated.

For some prelisted EI numbers, name and address information was not available. Please enter the name and address that applies in each case.

EI numbers of your company and its subsidiaries that are not prelisted in Item 1A should be added in Item 1B. If your company or any of its subsidiaries uses different EI numbers for reporting employment and income, be sure that there is a separate entry for each such EI number in either Item 1A or 1B.

Line No.	Employer Identification (EI) Number, name, and mailing address (Please correct any errors and supply missing information)	Employees (during the pay period including March 12, 1973)	Reporting status of EI number	Status of company or subsidiary at the end of 1973 (Mark one box and complete as indicated)
	(a)	(b)	(c)	(d)
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - No./yr. of sale _____</p> <p>PURCHASER'S NAME _____</p> <p>NUMBER AND STREET _____</p> <p>CITY STATE ZIP CODE _____</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - No./yr. of sale _____</p> <p>PURCHASER'S NAME _____</p> <p>NUMBER AND STREET _____</p> <p>CITY STATE ZIP CODE _____</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - No./yr. of sale _____</p> <p>PURCHASER'S NAME _____</p> <p>NUMBER AND STREET _____</p> <p>CITY STATE ZIP CODE _____</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - No./yr. of sale _____</p> <p>PURCHASER'S NAME _____</p> <p>NUMBER AND STREET _____</p> <p>CITY STATE ZIP CODE _____</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - No./yr. of sale _____</p> <p>PURCHASER'S NAME _____</p> <p>NUMBER AND STREET _____</p> <p>CITY STATE ZIP CODE _____</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - No./yr. of sale _____</p> <p>PURCHASER'S NAME _____</p> <p>NUMBER AND STREET _____</p> <p>CITY STATE ZIP CODE _____</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>

Enter All Additional Employer Identification Numbers in Item 1B and Complete Items 2 through 5

APPENDIX C—Continued

INSTRUCTIONS FOR COMPLETING FORM NC-X1A

A. DEFINITIONS

- ▶ **Census File Number**—A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of items 1A, 2, and 5A. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in items 1B or 5B.
- ▶ **Employer Identification Number**—The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.
- ▶ **Company or Firm**—A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment**—A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND/OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAO) and Auxiliary establishment, how to report Non-establishment employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services
 - Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated Reported by Agency or Officials), Appliance Sales by Public Utility Companies, Department or Concessions, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House to House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.

- ▶ **Subsidiary**—A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973**—All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations; include salaried officers and executives of incorporated firms. This definition is the same as the definition used for item 1 of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments**—Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

B. INSTRUCTIONS

- ▶ **Item 1—Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment**—This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS forms 941, 943, or CT-1) or income returns (IRS forms 1065, 1120, 1120S, or 990C).
- If your company or any of its subsidiaries uses different EI numbers in reporting employment and income (or the same legal entity, be sure there is a separate entry for each such number in either 1A or 1B.
- ▶ **Item 1A—Listing of Employer Identification Numbers (Based on Census Records)**—All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available. If the EI number is currently used, correct any errors or omissions in the pre-listed name and address in column (a); report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d).
- If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item 1A or 1B EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B—Your Listing of Additional Employer Identification Numbers**
- Column (a)**—List separately each EI number not prelisted in item 1A that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.
- Column (b)**—Report the number of employees during the pay period including March 12, 1973.
- Column (c)**—Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.
- Column (d)**—Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "7" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "8" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in item 1B that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

- ▶ **Item 2—Reconciliation of Employment Reported by EI Numbers and by Establishments**—Complete this item after you have finished items 5A and 5B. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in items 5A and 5B account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

Column (a)—The Employer Identification (EI) Numbers are identical to those prelisted in item 1A. Bring this list up-to-date by making the corrections previously made in item 1A and adding any EI numbers that you added in item 1B.

Column (b)—Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

Column (c)—For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both items 5A and 5B. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of 5% or 500 employees occur, examine the data that you reported in items 1A, 1B, 5A, and 5B for errors, omissions, or duplications.

If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in items 1A or 1B should have at least one establishment listed in item 5A or 5B; conversely, each establishment listed in item 5A or 5B should have its EI number listed in item 1A or 1B. The three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in item 5A or 5B. Therefore, in completing item 2 for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in item 5A or 5B with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in item 5A or 5B for the income EI number. In completing item 2 for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

- ▶ **Item 3—Company Affiliation**—If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

- ▶ **Item 4—Certification**—After you have finished all items on the report, complete the certification as indicated.

- ▶ **Item 5—Domestic Establishments of your Company and its Subsidiaries, and Their 1973 Employment**—This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in items 1A and 1B. If more than one EI number is assigned to an establishment, report the employment tax EI number in items 5A and 5B. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one establishment in item 5A or 5B for each employment tax EI number listed in item 1A or 1B.

- ▶ **Item 5A—Listing of Domestic Establishments (Based on Census Records)**—Review each prelisted establishment. For establishments still in operation, correct any errors or omissions in the prelisted name, address, and EI number in column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections in column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number in column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

- ▶ **Item 5B—Your Listing of Additional Domestic Establishments**—List separately all domestic establishments of your company and its subsidiaries not prelisted in item 5A that are now in operation, under construction, or were in operation at any time during 1973. Please read the definition of an establishment above before completing this item.

Column (a)—Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

Column (b)—Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "None." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

Column (c)—Mark one box which best describes the principal business activity during 1973, mark Auxiliary for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Mark Central Administrative Offices (CAO) for an establishment primarily engaged in management and general administrative functions.

Column (d)—List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

- ▶ **Instructions for (e) and (f)**—Answer question (e) for acquired establishments. Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

- ▶ **NOTE**—After you have completed item 5, please be sure to complete items 2, 3, and 4 before returning this form.

Additional copies of items 1B, 2, and 5B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

APPENDIX C-Continued

DUE DATE: 20 DAYS AFTER RECEIPT OF FORM

O.M.B. No. 41-R2751; Approval Expires December 31, 1974

<p>FORM NC-X1B (Item 1A) (7-70-78)</p>	<p>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS</p> <p>1973 REPORT OF COMPANY ORGANIZATION</p> <p>(This page includes Items 1A and 1B)</p>	<p>NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p>Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report</p> <p>Company name and address (Please correct any errors in name and address including ZIP code)</p>		
<p>Please complete this report within 20 days after receipt and RETURN THIS COPY TO</p> <p style="text-align: right;">BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130</p>				
<p>NOTE - The purpose of this form is to obtain an accurate and up-to-date list of your establishments, i.e., separate business locations that were in operation, or under construction during part or all of 1973. This list should include establishments of your company and each of its subsidiaries. To make it easier for you to complete this report, we have prelisted information that you have previously provided to the Census Bureau.</p> <p style="text-align: center;">READ THE INSTRUCTIONS ON THE REVERSE SIDE BEFORE COMPLETING THIS REPORT</p>				
<p>Item 1 - EMPLOYER IDENTIFICATION NUMBERS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT</p> <p>This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries in reporting either Federal employment taxes (IRS forms 941, 943, or CT-1) or Federal income returns (IRS forms 1065, 1120, 1120S, or 990C).</p> <p>If your company or any of its subsidiaries uses different EI numbers for reporting employment and income, be sure that there is a separate entry for each such EI number in either Item 1A or 1B.</p> <p>In Item 1A, based on Census records, we have prelisted (in numeric sequence) all EI numbers and their associated names and addresses where available. Bring this list up-to-date by correcting the prelisted EI number and name and address information in column (a), and completing columns (b) through (d) as indicated.</p> <p>For some prelisted EI numbers, name and address information was not available. Please enter the name and address that applies in each case.</p> <p>In Item 1B add EI numbers that are currently used by your company or its domestic and foreign subsidiaries that are not prelisted in Item 1A. List separately in column (a) all Employer Identification (EI) Numbers and their associated names and addresses used at any time during 1973. For each added EI number complete columns (b) through (d) as indicated.</p> <p>If you need more space for adding EI numbers, you may request additional pages or use a blank sheet of paper following the same format shown below in Item 1B. At the top of each sheet enter "Item 1B continued" and your company name, address, and Census File Number.</p>				
<p>Item 1A - LISTING OF EMPLOYER IDENTIFICATION NUMBERS (BASED ON CENSUS RECORDS)</p>				
Line number	Employer Identification (EI) Number, name, and mailing address (Please correct any errors and supply missing information)	Employees (during the pay period including March 12, 1973)	Reporting status of EI number	Status of company or subsidiary at the end of 1973 (Mark one box and complete as indicated)
	(a)	(b)	(c)	(d)
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - Mo./yr. of sale _____</p> <p>PURCHASER'S NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - Mo./yr. of sale _____</p> <p>PURCHASER'S NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active</p> <p>2 <input type="checkbox"/> Inactive - Date _____</p> <p>3 <input type="checkbox"/> Sold - Mo./yr. of sale _____</p> <p>PURCHASER'S NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p> <p>4 <input type="checkbox"/> Other - Explain _____</p>
<p>Item 1B - YOUR LISTING OF ADDITIONAL EMPLOYER IDENTIFICATION NUMBERS - USE ITEM 2B FOR LISTING ADDITIONAL ESTABLISHMENTS</p>				
Line number	Employer Identification (EI) Number, name, and mailing address	Employees (during the pay period including March 12, 1973)	Reporting status of EI number	Explanation of additional companies acquired, reorganized or newly organized under a distinct EI number during 1973
	(a)	(b)	(c)	(d)
	<p>EMPLOYER IDENTIFICATION NO. _____</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>5 <input type="checkbox"/> Acquired - MONTH AND YEAR OF PURCHASE _____</p> <p>FORMER OWNER'S NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p> <p>6 <input type="checkbox"/> Newly organized - Date _____</p> <p>7 <input type="checkbox"/> Other - Explain _____</p>
	<p>EMPLOYER IDENTIFICATION NO. _____</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>	<p>5 <input type="checkbox"/> Acquired - MONTH AND YEAR OF PURCHASE _____</p> <p>FORMER OWNER'S NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p> <p>6 <input type="checkbox"/> Newly organized - Date _____</p> <p>7 <input type="checkbox"/> Other - Explain _____</p>

Please Complete Items 2 through 4

APPENDIX C-Continued

INSTRUCTIONS FOR COMPLETING FORM NC-X1B

A. DEFINITIONS

- ▶ **Census File Number** - A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of **Items 1A, 2A, and 2B**. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in **Item 2B**.
- ▶ **Employer Identification Number** - The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.
Company or Firm - A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment** - A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND/OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAO) and Auxiliary establishment, how to report Non-establishment Employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services - Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated Reported by Agency or Officials), Appliance Sales by Public Utility companies, Department or Concessions, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House-to-House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.
- ▶ **Subsidiary** - A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** - All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations; include salaried officers and executives of incorporated firms. This definition is the same as the definition used for **Item 1** of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments** - Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

B. INSTRUCTIONS

- ▶ **Item 1 - Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** - This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS Forms 941, 943, or CT-1) or income returns (IRS Forms 1065, 1120, 1120S or 990C). If your company or any of its subsidiaries uses different EI numbers in reporting employment and income for the same legal entity, be sure there is a separate entry for each such number in either **1A** or **1B**.
- ▶ **Item 1A - Listing of Employer Identification Numbers (Based on Census Records)** - All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available.
If the EI number is currently used, correct any errors or omissions in the prelisted name and address in column (a); report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS Forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d).
If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item **1A** or **1B** EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B - Your Listing of Additional Employer Identification Numbers**
Column (a) - List separately each EI number not prelisted in **Item 1A** that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.
Column (b) - Report the number of employees during the pay period including March 12, 1973.
Column (c) - Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.
Column (d) - Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "7" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "5" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in **Item 1B** that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

▶ **Item 2 - Domestic Establishments of your Company and its Subsidiaries, and Their 1973 Employment** - This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in **Items 1A** and **1B**. If more than one EI number is assigned to an establishment, report the employment tax EI number in **Items 2A** and **2B**. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one establishment in **Item 2A** or **2B** for each employment tax EI number listed in **Item 1A** or **1B**.

▶ **Item 2A - Listing of Domestic Establishments (Based on Census Records)** - Review each prelisted establishment. For establishments still in operation, correct any errors or omissions in the prelisted name, address, and EI number in column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. Identify in the establishment name those Leased Departments operated in a retail or service store as "leased dept." or "leased concession." The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections in column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number in column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

▶ **Item 2B - Your Listing of Additional Domestic Establishments** - List separately all domestic establishments of your company and its subsidiaries not prelisted in **Item 2A** that were in operation, or under construction, during part or all of 1973. Please read the definition of an establishment above before completing this item.

Column (a) - Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

Column (b) - Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "none." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

Column (c) - Mark one box which best describes the principal business activity during 1973. Check Auxiliary for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Check Central Administrative Offices (CAO) for an establishment primarily engaged in management and general administrative functions.

Column (d) - List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

Instructions for (e) and (f) - Answer question (e) for acquired establishments. Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

Note - After you have completed item 2, please be sure to complete **Items 2C, 3, and 4** before returning this form.

▶ **Item 2C - Reconciliation of Employment Reported by EI Numbers and by Establishments** - Complete this item after you have finished **Items 2A** and **2B**. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in **Items 2A** and **2B** account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

Column (a) - The Employer Identification (EI) Numbers are identical to those prelisted in **Item 1A**. Bring this list up-to-date by making the corrections previously made in **Item 1A** and adding any EI numbers that you added in **Item 1B**.
Column (b) - Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

Column (c) - For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both **Items 2A** and **2B**. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of 5% or 500 employees occur, examine the data that you reported in **Items 1A, 1B, 2A, and 2B** for errors, omissions, or duplications. If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in **Item 1A** or **1B** should have at least one establishment listed in **Item 2A** or **2B**; conversely, each establishment listed in **Item 2A** or **2B** should have its EI number listed in **Item 1A** or **1B**. The three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in **Item 2A** or **2B**. Therefore, in completing **Item 2C** for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in **Item 2A** or **2B** with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in **Item 2A** or **2B** for the income EI number. In completing **Item 2C** for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

▶ **Item 3 - Company Affiliation** - If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

▶ **Item 4 - Certification** - After you have finished all items on the report, complete the certification as indicated.

Additional copies of **Items 1B** and **2B** are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

APPENDIX C—Continued

[illegible]

Please Complete Items 2 through 5

APPENDIX C-Continued

INSTRUCTIONS FOR COMPLETING FORM NC-X1A

A. DEFINITIONS

- ▶ **Census File Number** - A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of items 1A, 2, and 5A. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in items 1B or 5B.
- ▶ **Employer Identification Number** - The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.
- ▶ **Company or Firm** - A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment** - A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND/OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAO) and Auxiliary establishment, how to report Non-establishment Employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services
- Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated Reported by Agency or Officials), Appliance Sales by Public Utility companies, Department or Concessions, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House to House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.

- ▶ **Subsidiary** - A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** - All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations; include salaried officers and executives of incorporated firms. This definition is the same as the definition used for item 1 of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments** - Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

B. INSTRUCTIONS

- ▶ **Item 1 - Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** - This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS forms 941, 943, or CT-1) or income returns (IRS forms 1065, 1120, 1120S, or 990C).
- If your company or any of its subsidiaries uses different EI numbers in reporting employment and income for the same legal entity, be sure there is a separate entry for each such number in either 1A or 1B.
- ▶ **Item 1A - Listing of Employer Identification Numbers (Based on Census Records)** - All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available.
- If the EI number is currently used, correct any errors or omissions in the pre-listed name and address in column (a), report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d).
- If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item 1A or 1B EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B - Your Listing of Additional Employer Identification Numbers**
- Column (a)** - List separately each EI number not prelisted in item 1A that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.
- Column (b)** - Report the number of employees during the pay period including March 12, 1973.
- Column (c)** - Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.
- Column (d)** - Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "7" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "5" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in item 1B that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

- ▶ **Item 2 - Reconciliation of Employment Reported by EI Numbers and by Establishments** - Complete this item after you have finished items 5A and 5B. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in items 5A and 5B account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

Column (a) - The Employer Identification (EI) Numbers are identical to those prelisted in item 1A. Bring this list up-to-date by making the corrections previously made in item 1A and adding any EI numbers that you added in item 1B.

Column (b) - Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

Column (c) - For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both items 5A and 5B. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of 5% or 500 employees occur, examine the data that you reported in items 1A, 1B, 5A, and 5B for errors, omissions, or duplications.

If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in items 1A or 1B should have at least one establishment listed in item 5A or 5B; conversely, each establishment listed in item 5A or 5B should have its EI number listed in item 1A or 1B. The three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in item 5A or 5B. Therefore, in completing item 2 for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in item 5A or 5B with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in item 5A or 5B for the income EI number. In completing item 2 for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

- ▶ **Item 3 - Company Affiliation** - If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

- ▶ **Item 4 - Certification** - After you have finished all items on the report, complete the certification as indicated.

- ▶ **Item 5 - Domestic Establishments of your Company and its Subsidiaries, and Their 1973 Employment** - This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in items 1A and 1B. If more than one EI number is assigned to an establishment, report the employment tax EI number in items 5A and 5B. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one plant number in item 5A or 5B for each employment tax EI number listed in item 1A or 1B.

- ▶ **Item 5A - Listing of Domestic Establishments (Based on Census Records)** - Review each prelisted establishment. For establishments still in operation correct any errors or omissions in the prelisted name, address, and EI number in column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections in column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number in column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

- ▶ **Item 5B - Your Listing of Additional Domestic Establishments** - List separately all domestic establishments of your company and its subsidiaries not prelisted in item 5A that are now in operation, under construction, or were in operation at any time during 1973. Please read the definition of an establishment above before completing this item.

Column (a) - Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

Column (b) - Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "None." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

Column (c) - Mark one box which best describes the principal business activity during 1973, mark Auxiliary for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Mark Central Administrative Offices (CAO) for an establishment primarily engaged in management and general administrative functions.

Column (d) - List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

- ▶ **Instructions for (e) and (f) - Answer question (e) for acquired establishments.** Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

- ▶ **NOTE** - After you have completed item 5, please be sure to complete items 2, 3, and 4 before returning this form.

Additional copies of items 1B, 2, and 5B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

APPENDIX C-Continued

Form NC-X1B (Item 2A)		U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS		Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report	
1973 REPORT OF COMPANY ORGANIZATION					
Item 2 - DOMESTIC ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT AND PAYROLL This item should include an up-to-date list of all domestic establishments (business locations) of your company and its subsidiaries as identified in Items 1A and 1B that were in operation or under construction during part or all of 1973. Exclude establishments in foreign countries; include establishments in all territories and possessions (Puerto Rico, Virgin Islands, Canal Zone, Guam, American Samoa and Trust Territory of Pacific Islands). In Item 2A we have prelisted establishments of your company and its subsidiaries, based on Census records. Bring this list up-to-date by correcting any errors or omissions in the prelisted information in column (a) and completing columns (b) and (c) as indicated. Establishments not prelisted in item 2A should be listed by you in item 2B. If more than one EI number is assigned to this establishment, report the employment tax EI number in item 2A or 2B. Ordinarily, there should be at least one establishment in item 2A or 2B for each employment tax EI number listed in item 1A or 1B; if not, please explain in item 2C. NOTE: For your convenience in locating establishments prelisted below, they are grouped in the following sequence: Employer Identification Number, major kind of business, State, and city.					
Item 2A - LISTING OF DOMESTIC ESTABLISHMENTS (BASED ON CENSUS RECORDS)					
Line number	Employer Identification (EI) Number, major kind of business, establishment name, and address of physical location (including county and ZIP code) (Add store or plant number, if any, and correct any errors or omissions) (a)		1973 Establishment data Report number of employees and payroll (\$1,000) for each establishment including part year operations (b)		Status of establishment at the end of 1973 (Mark one box and complete as indicated) (c)
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973 (\$1,000)	Total annual payroll for 1973 before deductions (\$1,000)	DATE
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973 (\$1,000)	Total annual payroll for 1973 before deductions (\$1,000)	DATE
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973 (\$1,000)	Total annual payroll for 1973 before deductions (\$1,000)	DATE
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973 (\$1,000)	Total annual payroll for 1973 before deductions (\$1,000)	DATE
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973 (\$1,000)	Total annual payroll for 1973 before deductions (\$1,000)	DATE
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE

Enter All Additional Establishments in Item 2B; Then Complete Items 2C, 3, and 4

APPENDIX C -Continued

INSTRUCTIONS FOR COMPLETING FORM NC-X1B

A. DEFINITIONS

- ▶ **Census File Number** - A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of items 1A, 2A, and 2B. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in item 2B.
- ▶ **Employer Identification Number** - The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.
- Company or Firm** - A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment** - A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND/OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAO) and Auxiliary establishment, how to report Non-establishment Employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services - Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated Reported by Agency or Officials), Appliance Sales by Public Utility companies, Department or Concessions, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House-to-House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.

- ▶ **Subsidiary** - A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** - All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations; include salaried officers and executives of incorporated firms. This definition is the same as the definition used for item 1 of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments** - Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

B. INSTRUCTIONS

- ▶ **Item 1 - Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** - This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS Forms 941, 943, or CT-1) or income returns (IRS Forms 1065, 1120, 1120S or 990C). If your company or any of its subsidiaries uses different EI numbers in reporting employment and income for the same legal entity, be sure there is a separate entry for each such number in either 1A or 1B.
- ▶ **Item 1A - Listing of Employer Identification Numbers (Based on Census Records)** - All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available. If the EI number is currently used, correct any errors or omissions in the prelisted name and address in column (a); report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS Forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d). If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item 1A or 1B EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B - Your Listing of Additional Employer Identification Numbers**
Column (a) - List separately each EI number not prelisted in item 1A that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.
Column (b) - Report the number of employees during the pay period including March 12, 1973.
Column (c) - Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.
Column (d) - Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "7" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "5" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in item 1B that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

- ▶ **Item 2 - Domestic Establishments of your Company and its Subsidiaries, and Their 1973 Employment** - This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in items 1A and 1B. If more than one EI number is assigned to an establishment, report the employment tax EI number in items 2A and 2B. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one establishment in item 2A or 2B for each employment tax EI number listed in item 1A or 1B.

- ▶ **Item 2A - Listing of Domestic Establishments (Based on Census Records)** - Review each prelisted establishment. For establishments still in operation, correct any errors or omissions in the prelisted name, address, and EI number in column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. Identify in the establishment name those Leased Departments operated in a retail or service store as "leased dept." or "leased concession." The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections in column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number in column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

- ▶ **Item 2B - Your Listing of Additional Domestic Establishments** - List separately all domestic establishments of your company and its subsidiaries not prelisted in item 2A that were in operation, or under construction, during part or all of 1973. Please read the definition of an establishment above before completing this item.

Column (a) - Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

Column (b) - Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "none." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

Column (c) - Mark one box which best describes the principal business activity during 1973. Check Auxiliary for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Check Central Administrative Offices (CAO) for an establishment primarily engaged in management and general administrative functions.

Column (d) - List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

Instructions for (e) and (f) - Answer question (e) for acquired establishments. Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

Note - After you have completed item 2, please be sure to complete items 2C, 3, and 4 before returning this form.

- ▶ **Item 2C - Reconciliation of Employment Reported by EI Numbers and by Establishments** - Complete this item after you have finished items 2A and 2B. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in items 2A and 2B account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

Column (a) - The Employer Identification (EI) Numbers are identical to those prelisted in item 1A. Bring this list up-to-date by making the corrections previously made in item 1A and adding any EI numbers that you added in item 1B.

Column (b) - Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

Column (c) - For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both items 2A and 2B. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of 5% or 500 employees occur, examine the data that you reported in items 1A, 1B, 2A, and 2B for errors, omissions, or duplications. If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in item 1A or 1B should have at least one establishment listed in item 2A or 2B; conversely, each establishment listed in item 2A or 2B should have its EI number listed in item 1A or 1B. The three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in item 2A or 2B. Therefore, in completing item 2C for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in item 2A or 2B with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in item 2A or 2B for the income EI number. In completing item 2C for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

- ▶ **Item 3 - Company Affiliation** - If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

- ▶ **Item 4 - Certification** - After you have finished all items on the report, complete the certification as indicated.

APPENDIX C-Continued

FORM NC-X1C (Item 1A) <small>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS</small>		<small>O.M.B. No. 41-R2751; Approval Expires December 31, 1974</small>	
1973 REPORT OF COMPANY ORGANIZATION (This page includes Items 1A and 1B)		NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.	
Please complete this report within 20 days after receipt and RETURN THIS COPY TO BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130		Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report	
NOTE - The purpose of this form is to obtain an accurate and up-to-date list of your establishments, i.e., separate business locations that were in operation, or under construction during part or all of 1973. To make it easier for you to complete this report, we have pre-listed information that you have previously provided to the Census Bureau. READ THE INSTRUCTIONS ON THE REVERSE SIDE BEFORE COMPLETING THIS REPORT		Company name and address (Please correct any errors in name and address including ZIP code)	
Item 1 - EMPLOYER IDENTIFICATION NUMBERS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries in reporting either Federal employment taxes (IRS Forms 941, 943, or CT-1) or Federal income returns (IRS Forms 1065, 1120, 1120S, or 990C). In Item 1A , based on Census records, we have prelisted your company's EI number and name and address. Please make any corrections necessary to update these entries. Also complete columns (b) and (c) as indicated. In Item 1B add EI numbers that are currently used by your company that are not prelisted in Item 1A . List separately in column (a) all Employer Identification (EI) Numbers and their associated names and addresses. For each added EI number complete columns (b) and (c) as indicated. If you need more space for adding EI numbers, you may request additional pages or use a blank sheet of paper following the same format shown below in Item 1B . At the top of each sheet enter "Item 1B continued" and your company name, address, and Census File Number.			
Item 1A - LISTING OF YOUR EMPLOYER IDENTIFICATION NUMBER (BASED ON CENSUS RECORDS)			
Line No.	Employer Identification (EI) Number, name, and mailing address <small>(Please correct any errors and supply missing information)</small> (a)	Employees (during the pay period including March 12, 1973) (b)	Status of company or subsidiary at the end of 1973 <small>(Mark one box and complete as indicated)</small> (c)
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date _____ 3 <input type="checkbox"/> Sold (Mo./yr. of sale) _____ PURCHASER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 4 <input type="checkbox"/> Other - Explain _____
Item 1B - YOUR LISTING OF ADDITIONAL EMPLOYER IDENTIFICATION NUMBERS - USE ITEM 2B FOR LISTING ADDITIONAL ESTABLISHMENTS			
Line No.	Employer Identification (EI) Number, name, and mailing address (a)	Employees (during the pay period including March 12, 1973) (b)	Explanation of additional companies acquired, reorganized, or newly organized under a distinct EI number during 1973 <small>(Mark one box and complete as indicated)</small> (c)
	EMPLOYER IDENTIFICATION NO. _____ NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	5 <input type="checkbox"/> Acquired - MONTH AND YEAR OF PURCHASE _____ FORMER OWNER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 6 <input type="checkbox"/> Newly organized - Date _____ 7 <input type="checkbox"/> Other - Explain _____
	EMPLOYER IDENTIFICATION NO. _____ NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	5 <input type="checkbox"/> Acquired - MONTH AND YEAR OF PURCHASE _____ FORMER OWNER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 6 <input type="checkbox"/> Newly organized - Date _____ 7 <input type="checkbox"/> Other - Explain _____
	EMPLOYER IDENTIFICATION NO. _____ NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	5 <input type="checkbox"/> Acquired - MONTH AND YEAR OF PURCHASE _____ FORMER OWNER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 6 <input type="checkbox"/> Newly organized - Date _____ 7 <input type="checkbox"/> Other - Explain _____

Instructions on Reverse Side

APPENDIX C—Continued

INSTRUCTIONS FOR COMPLETING FORM NC-X1C

A. DEFINITIONS

- ▶ **Census File Number** — A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page which contains prelisted information. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the page(s) used for any entries in item 2B.
- ▶ **Employer Identification Number** — The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by employers to file Quarterly Federal Tax Return (IRS 941) and Federal income returns (such as Form 1120, U.S. Corporation Income Tax Return and Form 1065, U.S. Partnership Return of Income).
- ▶ **Establishment** — A single physical location where business is conducted or services performed.
- ▶ **Subsidiary** — Another company that is owned or controlled by your firm.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** — All full-time and part-time employees on the payroll during the March 12 pay period. Report the same number of employees you reported on IRS Employers Form 941 or 943.
- ▶ **Payroll** — The gross earnings paid to employees prior to any deductions.

B. INSTRUCTIONS

- ▶ **Item 1 — Employer Identification Numbers of Your Company and Its Subsidiaries, and Their 1973 Employment** — List all Employer Identification (EI) Numbers used by your company to report either Federal employment (IRS Form 941, 942 or 943) or income (IRS Forms 1065, 1120, 1120S or 990C).
- ▶ **Item 1A — Listing of Your Employer Identification Number (Based on Census Records)** — We have listed your EI number as reported to the Census Bureau in the past. Please correct any errors or omissions in the prelisted name and address in column (a) and complete columns (b) and (c). If the EI number was only used to report employment and income for part of 1973, enter the part year information and the status of the company at the end of the year.
- ▶ **Item 1B — Your List of Additional Employer Identification Numbers** — If you purchased another company or organized a subsidiary company, enter each additional EI number in Item 1B and complete columns (b) and (c) for each EI number. In column (c) mark the box which describes the reason for adding the EI number to the list.
- ▶ **Item 2A — Establishments of Your Company and Its Subsidiaries, and Their 1973 Employment and Payroll** — We have prelisted the individual business locations (establishments) that make up the EI number in Item 1A. Please correct the name or address if necessary and complete columns (b) and (c) for each location. Estimates are acceptable if book figures are not readily available.
- ▶ **Item 2B — Your Listing of Additional Domestic Establishments** — If you added additional business locations under your original EI number, report in Item 2B for each location. Also if you added additional EI numbers in Item 1A, list the individual locations for each EI number in Item 2B. The addresses should represent the physical location, not a mailing address. If your employment and payroll records are not kept for individual locations, estimate for the separate locations. Report First Quarter establishment payroll and Annual payroll in thousands of dollars.

EXAMPLE — If figure is \$25,428.28:

• PREFERRED METHOD → $\frac{25}{(\$1,000)}$

Column (c) — Mark one box which best describes the principal business activity during 1973. In column (d) enter the most important products you sell or the major service you offer. Be as specific as possible for the correct industrial classification of your operations.

- ▶ **Item 3 — Company Affiliation** — If your company is owned or controlled by another company, i.e., your company is considered a subsidiary, enter the name, address, and EI number of your parent company.
- ▶ **Item 4 — Certification** — After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

APPENDIX C—Continued

<small>Form NC-X1C (Item 2A)</small> <small>(7-30-73)</small>		<small>U.S. DEPARTMENT OF COMMERCE</small> <small>SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION</small> <small>BUREAU OF THE CENSUS</small>		Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report	
1973 REPORT OF COMPANY ORGANIZATION					
<p>Item 2 – DOMESTIC ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT AND PAYROLL</p> <p>This item should include an up-to-date list of all domestic establishments (business locations) of your company and its subsidiaries that were in operation, or under construction, during part or all of 1973.</p> <p>In Item 2A we have prelisted establishments of your company based on Census records. Bring this list up-to-date by correcting any errors or omissions in the prelisted information in column (a) and completing columns (b) and (c) as indicated. Establishments not prelisted in Item 2A should be listed by you in Item 2B.</p> <p>Be sure that there is at least one establishment in Item 2A or 2B for your company and each subsidiary listed in items 1A and 1B.</p>					
Item 2A – LISTING OF DOMESTIC ESTABLISHMENTS (BASED ON CENSUS RECORDS)					
Line No.	Employer Identification (EI) Number, major kind of business, establishment name, and address of physical location (including county and ZIP code) <small>(Add store or plant number, if any, and correct any errors or omissions)</small>		1973 Establishment data		Status of establishment at end of 1973 <small>(Mark one box and complete as indicated)</small>
	(a)		(b)		(c)
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973)	Report number of employees and payroll (\$1,000) for each establishment include part year operations	<input type="checkbox"/> In operation <input type="checkbox"/> Moved – Correct address in col. (a) <input type="checkbox"/> Sold or leased → MONTH AND YEAR OF SALE/LEASE
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973	(Number)	PURCHASER'S OR LESSEE'S NAME
	NUMBER AND STREET OF PHYSICAL LOCATION		(\$1,000)		NUMBER AND STREET
	CITY	STATE ZIP CODE	Total annual payroll for 1973 before deductions		CITY STATE ZIP CODE
	COUNTY		(\$1,000)		<input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → DATE <input type="checkbox"/> Idle or inactive (but still owned) → <input type="checkbox"/> Other – Describe →
	Census use only	CENSUS FILE NO. ISC IND. CODE ITE	Census use only	TAB NO. ICCS	
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973)	Report number of employees and payroll (\$1,000) for each establishment include part year operations	<input type="checkbox"/> In operation <input type="checkbox"/> Moved – Correct address in col. (a) <input type="checkbox"/> Sold or leased → MONTH AND YEAR OF SALE/LEASE
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973	(Number)	PURCHASER'S OR LESSEE'S NAME
	NUMBER AND STREET OF PHYSICAL LOCATION		(\$1,000)		NUMBER AND STREET
	CITY	STATE ZIP CODE	Total annual payroll for 1973 before deductions		CITY STATE ZIP CODE
	COUNTY		(\$1,000)		<input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → DATE <input type="checkbox"/> Idle or inactive (but still owned) → <input type="checkbox"/> Other – Describe →
	Census use only	CENSUS FILE NO. ISC IND. CODE ITE	Census use only	TAB NO. ICCS	
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973)	Report number of employees and payroll (\$1,000) for each establishment include part year operations	<input type="checkbox"/> In operation <input type="checkbox"/> Moved – Correct address in col. (a) <input type="checkbox"/> Sold or leased → MONTH AND YEAR OF SALE/LEASE
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973	(Number)	PURCHASER'S OR LESSEE'S NAME
	NUMBER AND STREET OF PHYSICAL LOCATION		(\$1,000)		NUMBER AND STREET
	CITY	STATE ZIP CODE	Total annual payroll for 1973 before deductions		CITY STATE ZIP CODE
	COUNTY		(\$1,000)		<input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → DATE <input type="checkbox"/> Idle or inactive (but still owned) → <input type="checkbox"/> Other – Describe →
	Census use only	CENSUS FILE NO. ISC IND. CODE ITE	Census use only	TAB NO. ICCS	
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973)	Report number of employees and payroll (\$1,000) for each establishment include part year operations	<input type="checkbox"/> In operation <input type="checkbox"/> Moved – Correct address in col. (a) <input type="checkbox"/> Sold or leased → MONTH AND YEAR OF SALE/LEASE
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973	(Number)	PURCHASER'S OR LESSEE'S NAME
	NUMBER AND STREET OF PHYSICAL LOCATION		(\$1,000)		NUMBER AND STREET
	CITY	STATE ZIP CODE	Total annual payroll for 1973 before deductions		CITY STATE ZIP CODE
	COUNTY		(\$1,000)		<input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → DATE <input type="checkbox"/> Idle or inactive (but still owned) → <input type="checkbox"/> Other – Describe →
	Census use only	CENSUS FILE NO. ISC IND. CODE ITE	Census use only	TAB NO. ICCS	
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973)	Report number of employees and payroll (\$1,000) for each establishment include part year operations	<input type="checkbox"/> In operation <input type="checkbox"/> Moved – Correct address in col. (a) <input type="checkbox"/> Sold or leased → MONTH AND YEAR OF SALE/LEASE
	NAME	STORE OR PLANT NO.	Payroll for the 1st quarter of 1973	(Number)	PURCHASER'S OR LESSEE'S NAME
	NUMBER AND STREET OF PHYSICAL LOCATION		(\$1,000)		NUMBER AND STREET
	CITY	STATE ZIP CODE	Total annual payroll for 1973 before deductions		CITY STATE ZIP CODE
	COUNTY		(\$1,000)		<input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → DATE <input type="checkbox"/> Idle or inactive (but still owned) → <input type="checkbox"/> Other – Describe →
	Census use only	CENSUS FILE NO. ISC IND. CODE ITE	Census use only	TAB NO. ICCS	

Enter All Additional Establishments in Item 2B; Then Complete Items 3 and 4

APPENDIX C—Continued

INSTRUCTIONS FOR COMPLETING FORM NC-X1C

A. DEFINITIONS

- ▶ **Census File Number** – A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page which contains prelisted information. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the page(s) used for any entries in item 2B.
- ▶ **Employer Identification Number** – The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by employers to file Quarterly Federal Tax Return (IRS 941) and Federal income returns (such as Form 1120, U.S. Corporation Income Tax Return and Form 1065, U.S. Partnership Return of Income).
- ▶ **Establishment** – A single physical location where business is conducted or services performed.
- ▶ **Subsidiary** – Another company that is owned or controlled by your firm.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** – All full-time and part-time employees on the payroll during the March 12 pay period. Report the same number of employees you reported on IRS Employers Form 941 or 943.
- ▶ **Payroll** – The gross earnings paid to employees prior to any deductions.

B. INSTRUCTIONS

- ▶ **Item 1 – Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** – List all Employer Identification (EI) Numbers used by your company to report either Federal employment (IRS Form 941, 942 or 943) or income (IRS Forms 1065, 1120, 1120S or 990C).
- ▶ **Item 1A – Listing of Your Employer Identification Number (Based on Census Records)** – We have listed your EI number as reported to the Census Bureau in the past. Please correct any errors or omissions in the prelisted name and address in column (a) and complete columns (b) and (c). If the EI number was only used to report employment and income for part of 1973, enter the part year information and the status of the company at the end of the year.
- ▶ **Item 1B – Your List of Additional Employer Identification Numbers** – If you purchased another company or organized a subsidiary company, enter each additional EI number in item 1B and complete columns (b) and (c) for each EI number. In column (c) mark the box which describes the reason for adding the EI number to the list.
- ▶ **Item 2A – Establishments of Your Company and its Subsidiaries, and Their 1973 Employment and Payroll** – We have prelisted the individual business locations (establishments) that make up the EI number in item 1A. Please correct the name or address if necessary and complete columns (b) and (c) for each location. Estimates are acceptable if book figures are not readily available.
- ▶ **Item 2B – Your Listing of Additional Domestic Establishments** – If you added additional business locations under your original EI number, report in item 2B for each location. Also if you added additional EI numbers in item 1A, list the individual locations for each EI number in item 2B. The addresses should represent the physical location, not a mailing address. If your employment and payroll records are not kept for individual locations, estimate for the separate locations. Report First Quarter establishment payroll and Annual payroll in thousands of dollars.

EXAMPLE – If figure is \$25,428.28:

$$\bullet \text{ PREFERRED METHOD } \longrightarrow \frac{25}{(\$1,000)}$$

Column (c) – Mark one box which best describes the principal business activity during 1973. In column (d) enter the most important products you sell or the major service you offer. Be as specific as possible for the correct industrial classification of your operations.

- ▶ **Item 3 – Company Affiliation** – If your company is owned or controlled by another company, i.e., your company is considered a subsidiary, enter the name, address, and EI number of your parent company.
- ▶ **Item 4 – Certification** – After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

APPENDIX C—Continued

of pages

FORM NC-X1C (Item 2B)
17-35(7-73)

U.S. DEPARTMENT OF COMMERCE
SOCIAL AND ECONOMIC STATISTICS ADMIN.
BUREAU OF THE CENSUS

PLEASE ENTER YOUR
CENSUS FILE NUMBER HERE
(See Item 1A page)

➞

1773 REPORT OF COMPANY ORGANIZATION

Item 2B - YOUR LISTING OF ADDITIONAL DOMESTIC ESTABLISHMENTS

Column (a) - List separately all establishments of your company and any subsidiaries you own not prelisted in item 2A that were in operation, or under construction during part or all of 1973.

Columns (b)-(d)-Complete these columns for each listed establishment.

Column (c) - Mark the box which best describes the activity of each establishment. (*See box coding*)

1-Mining

2-Construction

3-Merchant wholesalers

4-Commission agent/broker

5-Communications

6-Manufacturers' sales branches,
sales offices

7-Manufacturing

8-Transportation and public utilities

9-Retail concessions/Depts.

10-Other retail

11-Finance, insurance or real estate

12-Auxiliary - Maintenance and repair shops, storage warehouses, research laboratories, primarily providing service to your own or affiliated company

13-Central Administrative Office - Accounting, purchasing, legal activities for the company

14-Other (*Specify activity in column (c) below*)

Line number	Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including county and ZIP code)	1973 Establishment data		Kind of business activity in 1973	
		Report number of employees and payroll (\$1,000) for each establishment including part year operations	Principal activity <i>(Mark one box from the above descriptions or specify activity for box 14 below)</i>	Principal products mined or made, kinds of services performed or kinds of construction work done <i>(List in order of importance)</i>	
	(a)	(b)	(c)	(d)	
	<div>EMPLOYER IDENTIFICATION NO. |---| NAME _____ STORE OR PLANT NO. ____ NUMBER AND STREET OF PHYSICAL LOCATION _____ CITY _____ STATE _____ ZIP CODE _____ COUNTY _____</div>	<div>Employees (during the pay period including March 12, 1973) _____ <i>(Number)</i></div> <div>Payroll for the 1st quarter of 1973 _____ (\$1,000)</div> <div>Total annual payroll for 1973 before deductions _____ (\$1,000)</div>	<div>1 <input type="checkbox"/> 8 <input type="checkbox"/> 2 <input type="checkbox"/> 9 <input type="checkbox"/> 3 <input type="checkbox"/> 10 <input type="checkbox"/> 4 <input type="checkbox"/> 11 <input type="checkbox"/> 5 <input type="checkbox"/> 12 <input type="checkbox"/> 6 <input type="checkbox"/> 13 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input checked="" type="checkbox"/></div>	<div>PRODUCTS, BUSINESS,SERVICES, ETC.</div> <div>_____</div> <div>_____</div> <div>_____</div> <div>_____</div> <div>_____</div>	
Census use only	CENSUS FILE NO. SCE T/O	IND. CODE WT.	TAB NO.	FORM	CCS
	<div>EMPLOYER IDENTIFICATION NO. |---| NAME _____ STORE OR PLANT NO. ____ NUMBER AND STREET OF PHYSICAL LOCATION _____ CITY _____ STATE _____ ZIP CODE _____ COUNTY _____</div>	<div>Employees (during the pay period including March 12, 1973) _____ <i>(Number)</i></div> <div>Payroll for the 1st quarter of 1973 _____ (\$1,000)</div> <div>Total annual payroll for 1973 before deductions _____ (\$1,000)</div>	<div>1 <input type="checkbox"/> 8 <input type="checkbox"/> 2 <input type="checkbox"/> 9 <input type="checkbox"/> 3 <input type="checkbox"/> 10 <input type="checkbox"/> 4 <input type="checkbox"/> 11 <input type="checkbox"/> 5 <input type="checkbox"/> 12 <input type="checkbox"/> 6 <input type="checkbox"/> 13 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input checked="" type="checkbox"/></div>	<div>PRODUCTS, BUSINESS,SERVICES, ETC.</div> <div>_____</div> <div>_____</div> <div>_____</div> <div>_____</div> <div>_____</div>	
Census use only	CENSUS FILE NO. SCE T/O	IND. CODE WT.	TAB NO.	FORM	CCS
	<div>EMPLOYER IDENTIFICATION NO. |---| NAME _____ STORE OR PLANT NO. ____ NUMBER AND STREET OF PHYSICAL LOCATION _____ CITY _____ STATE _____ ZIP CODE _____ COUNTY _____</div>	<div>Employees (during the pay period including March 12, 1973) _____ <i>(Number)</i></div> <div>Payroll for the 1st quarter of 1973 _____ (\$1,000)</div> <div>Total annual payroll for 1973 before deductions _____ (\$1,000)</div>	<div>1 <input type="checkbox"/> 8 <input type="checkbox"/> 2 <input type="checkbox"/> 9 <input type="checkbox"/> 3 <input type="checkbox"/> 10 <input type="checkbox"/> 4 <input type="checkbox"/> 11 <input type="checkbox"/> 5 <input type="checkbox"/> 12 <input type="checkbox"/> 6 <input type="checkbox"/> 13 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input checked="" type="checkbox"/></div>	<div>PRODUCTS, BUSINESS,SERVICES, ETC.</div> <div>_____</div> <div>_____</div> <div>_____</div> <div>_____</div> <div>_____</div>	
Census use only	CENSUS FILE NO. SCE T/O	IND. CODE WT.	TAB NO.	FORM	CCS

Remarks

Item 3
COMPANY AFFILIATION

Name of owning or controlling company Address – Number and street, city, State,ZIP code Employer Identification Number of owning or controlling company

Item 4
CERTIFICATION

Name of person to contact regarding this report Address (If different from item 1A page) Telephone Area code Number Extension

This report (including attached continuation pages) is substantially accurate and has been prepared in accordance with instructions.
Signature of authorized person Title and name of company Date

APPENDIX C—Continued

INSTRUCTIONS FOR COMPLETING FORM NC-X1C

A. DEFINITIONS

- ▶ **Census File Number** — A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page which contains prelisted information. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the page(s) used for any entries in item 2B.
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- ▶ **Establishment** — A single physical location where business is conducted or services performed.
- ▶ **Subsidiary** — Another company that is owned or controlled by your firm.
- ▶ **Number of Employees During the Pay Period including March 12, 1973** — All full-time and part-time employees on the payroll during the March 12 pay period. Report the same number of employees you reported on IRS Employers Form 941 or 943.
- ▶ **Payroll** — The gross earnings paid to employees prior to any deductions.

B. INSTRUCTIONS

- ▶ **Item 1 — Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** — List all Employer Identification (EI) Numbers used by your company to report either Federal employment (IRS Form 941, 942 or 943) or income (IRS Forms 1065, 1120, 1120S or 990C).
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- ▶ **Item 1B — Your List of Additional Employer Identification Numbers** — If you purchased another company or organized a subsidiary company, enter each additional EI number in item 1B and complete columns (b) and (c) for each EI number. In column (c) mark the box which describes the reason for adding the EI number to the list.
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Column (c) — Mark one box which best describes the principal business activity during 1973. In column (d) enter the most important products you sell or the major service you offer. Be as specific as possible for the correct industrial classification of your operations.

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- ▶ **Item 4 — Certification** — After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

APPENDIX C—Continued

DUE DATE: 20 Days after Receipt FORM NC-X2 <small>(5-9-72)</small>		<small>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS</small>		<small>Form Approved: O.M.B. No. 41-571098</small> NOTICE —Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.	
<h2 style="margin: 0;">1972 ECONOMIC CENSUSES</h2> <h3 style="margin: 10px 0 0 0;">LISTING OF ADDITIONAL ESTABLISHMENTS</h3>		<small>In correspondence pertaining to this report please refer to this Census File Number</small>			
Please complete this report within 20 days after receipt and RETURN TO		BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130			
NOTE: Additional copies of this form are available upon request. If you prefer, list additional establishments on your own paper. BE SURE TO ENTER THE CENSUS FILE NUMBER in the upper right-hand corner of each additional sheet.		<small>(Please correct any error in name and address including ZIP code)</small>			
INSTRUCTIONS					
<p>List below ALL establishments of your firm and its subsidiaries located in the U.S. or any of its territories for which you did NOT receive a 1972 Census of Business, Construction, Manufactures, or Mineral Industries report form, or which are not shown in the enclosed listing for your firm. Include those establishments acquired by you through purchase, lease, construction, or other method of acquisition; include those which were in operation or under construction at any time during 1972. For acquired establishments, also report the former owner or operator in column (f). Each additional establishment should be listed on a SEPARATE LINE, except as specified in the enclosed Special Reporting Instructions.</p>					
Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including county and ZIP code)		Kind of business activity in 1972		Mark operating status during 1972	Approximate number of employees
(a)		(b)		(c)	(d)
EMPLOYER IDENTIFICATION NUMBER		<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other — Specify		PRODUCTS, BUSINESS, SERVICES, ETC.	
NAME		STORE OR PLANT NO.		<input type="checkbox"/> Operated during any part of 1972 — Complete col. (e) →	
NUMBER AND STREET OF PHYSICAL LOCATION		<input type="checkbox"/> Under construction or renovation, NOT operated during 1972		(Number)	
CITY		STATE		ZIP CODE	
COUNTY					
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?		Name and address of former owner or operator			
<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No					
CENSUS USE ONLY		CENSUS FILE NO.			
SCE		EI			
T/O		IND. CODE			
WT.		TAB NO.			
FORM		CCS			
EMPLOYER IDENTIFICATION NUMBER		NAME		STORE OR PLANT NO.	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
COUNTY		ZIP CODE		(Number)	
(f) Was this establishment acquired from another company?					

APPENDIX C -Continued

LISTING OF ADDITIONAL ESTABLISHMENTS											
Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including county and ZIP code)				Kind of business activity in 1972				Mark operating status during 1972	Approximate number of employees		
				Principal activity (Mark one)	Principal products mined or made; kinds of retail or wholesale business, types of services performed, or kinds of construction work done (List in order of importance)						
(a)				(b)	(c)			(d)	(e)		
EMPLOYER IDENTIFICATION NUMBER				<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other - Specify _____			PRODUCTS, BUSINESS, SERVICES, ETC. <input type="checkbox"/> Operated during any part of 1972 - Complete col. (e) → <input type="checkbox"/> Under construction or renovation, NOT operated during 1972			(Number)	
NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE			ZIP CODE				
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase			Name and address of former owner or operator				
CENSUS USE ONLY	CENSUS FILE NO.	SCE	EI	T/O	IND. CODE	WT.	TAB NO.	FORM	CCS		
EMPLOYER IDENTIFICATION NUMBER				<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other - Specify _____			PRODUCTS, BUSINESS, SERVICES, ETC. <input type="checkbox"/> Operated during any part of 1972 - Complete col. (e) → <input type="checkbox"/> Under construction or renovation, NOT operated during 1972			(Number)	
NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE			ZIP CODE				
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase			Name and address of former owner or operator				
CENSUS USE ONLY	CENSUS FILE NO.	SCE	EI	T/O	IND. CODE	WT.	TAB NO.	FORM	CCS		
EMPLOYER IDENTIFICATION NUMBER				<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other - Specify _____			PRODUCTS, BUSINESS, SERVICES, ETC. <input type="checkbox"/> Operated during any part of 1972 - Complete col. (e) → <input type="checkbox"/> Under construction or renovation, NOT operated during 1972			(Number)	
NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE			ZIP CODE				
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase			Name and address of former owner or operator				
CENSUS USE ONLY	CENSUS FILE NO.	SCE	EI	T/O	IND. CODE	WT.	TAB NO.	FORM	CCS		
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NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE			ZIP CODE				
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase			Name and address of former owner or operator				
CENSUS USE ONLY	CENSUS FILE NO.	SCE	EI	T/O	IND. CODE	WT.	TAB NO.	FORM	CCS		

CERTIFICATION	Name of person to contact regarding this report		Address (if different from label address)		Telephone	
					Area code	Number
					Extension	
This report (including attached continuation pages) is substantially accurate and has been prepared in accordance with instructions.						
Signature of authorized person			Title		Date	

APPENDIX C -Continued

DUE DATE: 20 DAYS AFTER RECEIPT OF FORM

Form Approved: O.M.B. No. 41-572007

<p>FORM NC-X3 (0300)</p>	<p>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</p>	<p>NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p>In correspondence pertaining to this report, please refer to this Census File Number</p> <p style="text-align: center;">NC-X3 (0300)</p> <p style="text-align: right;">Employer Identification Number</p>
<h2 style="margin: 0;">1972 ECONOMIC CENSUSES GENERAL SCHEDULE</h2>		
<p>Please complete this form and RETURN TO</p> <p style="text-align: center;">BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130</p>		
<p>INTRODUCTION AND GENERAL INSTRUCTIONS</p> <p>The Bureau of the Census is now conducting a census of establishments primarily engaged in the types of activities described in Section A, item 1 below. However, our records do not contain sufficient information on the kind of business or activity carried on at your establishment. Please complete Section A, item 1 below, to provide this information. Then proceed according to the instructions given in item 2 (i.e., if you are primarily engaged in one of the business activities described in boxes 1 through 33 or 59 below, complete Section A and ALL of Section B; otherwise, complete only Section A and the certification in Section B, item 9, and return the form in the envelope provided).</p> <p>Please refer to the Census File Number (the 11-digit number in the upper left corner of the address label), if you write to us about this report. This will expedite our processing of correspondence.</p> <p>If book figures are not available, carefully prepared estimates are acceptable.</p> <p style="text-align: center;"><small>Please correct errors in name, address and ZIP code. ENTER street and number if not shown.</small></p>		
<p>Section A - KIND OF BUSINESS OR ACTIVITY DURING 1972</p>		
<p>Item 1 - BUSINESS OR ACTIVITY</p> <p>Mark the box or boxes which best describe the kind of business or activity in which your company was primarily engaged in 1972.</p>		
<p><input type="checkbox"/> PUBLIC WAREHOUSING AND STORAGE</p> <p><input type="checkbox"/> MINING - Extracting or quarrying minerals (metallic and non-metallic ores; stone, sand, gravel; oil and gas; coal; etc.); minerals exploration and development; contract mineral services</p> <p><input type="checkbox"/> MANUFACTURING - Fabricating, assembling, or processing materials into new products. Also includes such activities as: logging; apparel jobbing; machine shop repair; and miscellaneous services "for the manufacturing trade."</p> <p><input type="checkbox"/> CONSTRUCTION (Includes new and/or maintenance and repair)</p> <p><input type="checkbox"/> General contractor (buildings, roads, etc.)</p> <p><input type="checkbox"/> Special trade contractor (painting, carpentry, plumbing, etc.)</p> <p><input type="checkbox"/> Operative or merchant builder; land subdivider and developer</p> <p><input type="checkbox"/> WHOLESALE TRADE - Selling merchandise to retailers; industrial, commercial, professional, institutional users; farmers; and government</p> <p><input type="checkbox"/> Merchant wholesaler</p> <p><input type="checkbox"/> Merchandise agent or broker</p> <p><input type="checkbox"/> Other type of wholesaler - Specify <u>7</u></p> <p><input type="checkbox"/> RETAIL TRADE - Selling merchandise to the general public (includes eating and drinking places and gasoline service stations)</p> <p><input type="checkbox"/> Selling at this establishment</p> <p><input type="checkbox"/> Mail order (catalog selling)</p> <p><input type="checkbox"/> House-to-house (direct selling)</p> <p><input type="checkbox"/> Operating merchandise vending machines</p> <p><input type="checkbox"/> Other type of retailer - Specify <u>7</u></p> <p><input type="checkbox"/> SELECTED SERVICES (Includes amusement and recreation services)</p> <p><input type="checkbox"/> Motel or tourist court</p> <p><input type="checkbox"/> Dry cleaning plant</p> <p><input type="checkbox"/> Coin operated dry cleaner or laundry</p> <p><input type="checkbox"/> Laundry or dry-cleaning agent "retail store"</p> <p><input type="checkbox"/> Beauty shop</p> <p><input type="checkbox"/> Barber shop</p> <p><input type="checkbox"/> Funeral service</p> <p><input type="checkbox"/> General auto repair</p> <p><input type="checkbox"/> Law office</p> <p><input type="checkbox"/> Truck carrier, local service, except ICC regulated</p> <p><input type="checkbox"/> Other services (e.g., repair, business services, theaters, amusement, recreation, travel agency.) Specify kind <u>7</u></p> <p><input type="checkbox"/> OTHER BUSINESS</p> <p><input type="checkbox"/> All other - Specify activity _____</p>	<p><input type="checkbox"/> AGRICULTURE, FORESTRY, FISHERY</p> <p><input type="checkbox"/> Farm or ranch</p> <p><input type="checkbox"/> Feed lot operations (cattle, hogs, and lambs)</p> <p><input type="checkbox"/> Poultry operations, including hatcheries</p> <p><input type="checkbox"/> Horticultural production (greenhouse products and nursery products)</p> <p><input type="checkbox"/> Animal specialties (horses, rabbits, fur-bearing animals in captivity, fish in captivity)</p> <p><input type="checkbox"/> Agricultural services (e.g., soil preparation, custom harvesting, cotton ginning, labor and management services)</p> <p><input type="checkbox"/> Veterinarian, animal hospital</p> <p><input type="checkbox"/> Forestry (e.g., timber tracts, forest nursery)</p> <p><input type="checkbox"/> Fishery</p> <p><input type="checkbox"/> TRANSPORTATION (If business is a travel agency, mark box 25; if a non-ICC regulated motor carrier, mark box 24.)</p> <p><input type="checkbox"/> Railroad</p> <p><input type="checkbox"/> Taxicab</p> <p><input type="checkbox"/> Water transportation</p> <p><input type="checkbox"/> Air transportation</p> <p><input type="checkbox"/> Pipeline</p> <p><input type="checkbox"/> Motor carrier (ICC regulated only)</p> <p><input type="checkbox"/> COMMUNICATION</p> <p><input type="checkbox"/> Telephone or telegraph service</p> <p><input type="checkbox"/> Radio or television broadcasting</p> <p><input type="checkbox"/> ELECTRIC, GAS, SANITARY SERVICES</p> <p><input type="checkbox"/> FINANCE, INSURANCE, REAL ESTATE</p> <p><input type="checkbox"/> Finance (bank, credit agency, security dealer, financial leasing)</p> <p><input type="checkbox"/> Insurance</p> <p><input type="checkbox"/> Real estate (except hotel operation, land subdividers and developers, and operative builders)</p> <p><input type="checkbox"/> MEDICAL AND OTHER HEALTH SERVICE - Doctor, dentist, hospital, etc. (If dental laboratory, mark box 25.)</p> <p><input type="checkbox"/> EDUCATIONAL SERVICE (If a barber, beauty, or dancing school, mark box 25.)</p> <p><input type="checkbox"/> NONPROFIT MEMBERSHIP ORGANIZATION (Nonprofit recreation clubs and performing arts organizations should mark box 59 and specify activity.)</p> <p><input type="checkbox"/> Trade association, board of trade, chamber of commerce</p> <p><input type="checkbox"/> Professional membership organization</p> <p><input type="checkbox"/> Labor union</p> <p><input type="checkbox"/> Civic, social, or fraternal association</p> <p><input type="checkbox"/> Political organization</p> <p><input type="checkbox"/> Religious organization</p> <p><input type="checkbox"/> Charitable organization</p> <p><input type="checkbox"/> MISCELLANEOUS SERVICES</p> <p><input type="checkbox"/> Accounting, auditing, bookkeeping (If a data processing service, mark box 25.)</p> <p><input type="checkbox"/> Writer, lecturer</p> <p><input type="checkbox"/> Government organization</p>	
<p>Item 2 - MARK ONE</p> <p><input type="checkbox"/> If you have marked one or more boxes numbered 1-33 OR 59 - COMPLETE Section B on the reverse side.</p> <p><input type="checkbox"/> If only box(es) numbered 34-58 are marked - SKIP to Section B, item 9, "Certification" on the reverse side.</p>		

APPENDIX C -Continued

FORM NC-X3 (0300)

Page 2

Section B - OPERATIONS OF ESTABLISHMENT DURING 1972

Item 1 - PHYSICAL LOCATION OF BUSINESS ESTABLISHMENT																																																																																	
<p>a. The purpose of this inquiry is to determine the place (city, county, etc.) where your business is actually located which may differ from the mailing address so that data can be tabulated in the correct geographic area.</p> <p>a. Is this business establishment PHYSICALLY located at the address shown in the address box of this form?</p> <p><input type="checkbox"/> YES - Answer b and c <input type="checkbox"/> NO - Enter PHYSICAL location Also answer b and c</p>					<p>PHYSICAL LOCATION</p> <p>b. If location cannot be described by street name and number, give as much information as possible such as name of shopping center, street intersection, highway number or distance from nearest town, etc.</p> <p>Street name and number _____</p> <p>Place (City or village, etc.) _____ State _____ ZIP code _____</p>																																																																												
<p>b. Is this business establishment located WITHIN the LEGAL boundaries of the city, village, etc., which you indicate is its PHYSICAL location?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>					<p>c. In what county is this business establishment PHYSICALLY located?</p> <p>County _____</p>																																																																												
Item 2 - EMPLOYER IDENTIFICATION NUMBER																																																																																	
<p>a. Is the Employer Identification (E.I.) Number printed in the upper right of the address box the SAME as that used for this establishment on your latest 1972 Employer's Quarterly Federal Tax Return, Treasury Form 941?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO - Enter current E.I. number (9 digits) _____</p>					<p>b. Did this establishment also use any other Employer Identification (E.I.) Number during 1972?</p> <p><input type="checkbox"/> YES - Enter E.I. number or numbers (9 digits) _____</p> <p><input type="checkbox"/> NO</p>																																																																												
Item 3 - PERIOD OPERATED IN 1972																																																																																	
<p>a. Was this establishment in business at the end of 1972?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p><small>If establishment was inactive during December 1972 due to seasonal or part-time operations, answer "Yes" unless it was not owned by you at the end of the year.</small></p>					<p>b. How many months during 1972 did you own this establishment?</p> <p>Number of months _____</p>																																																																												
<p>Important - Please read</p> <p>Dollar figures should be reported as illustrated. Please be careful to enter your figures in the correct columns. See example below:</p> <p>EXAMPLE: If figure is \$1,125,628.28 PREFERRED method 1 125 628</p> <p>Acceptable method 1 125 628</p>																																																																																	
Item 4 - DOLLAR VOLUME OF BUSINESS IN 1972																																																																																	
<p>Include in line "a" all sales of merchandise (whether or not payment was received in 1972); all other receipts from customers for services, including repair, maintenance, delivery, and installation charges; and all receipts from carrying charges or other charges and credit.</p>					<p>a. Sales of merchandise and other receipts from customers, including sales and excise taxes collected</p> <p>Mil. Thou. Dol.</p> <p>040 _____ _____</p>																																																																												
					<p>b. Does the entry in "a" include sales taxes and excise taxes collected from customers?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>																																																																												
					<p>c. If "NO," how much (if any) did you forward to taxing agencies for such taxes?</p> <p>Mil. Thou. Dol.</p> <p>042 _____ _____</p>																																																																												
					<p>d. Of the amount in line "a," what percent was for products manufactured by you at this location?</p> <p>046 Percent %</p> <p>_____ _____ _____</p>																																																																												
Item 5 - PAYROLL AND EMPLOYMENT																																																																																	
<p>Lines a and b - Report the gross earnings paid to employees prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings all wages, salaries, commissions, dismissal pay, paid bonuses, vacation and sickleave pay, and the cash equivalent of compensation paid in kind. If a corporation, include salaries of officers; if an unincorporated concern, exclude payments to proprietors or partners.</p>					<p>a. Total ANNUAL payroll in 1972 before deductions</p> <p>Mil. Thou. Dol.</p> <p>060 _____ _____</p>																																																																												
<p>Line c - Be sure to include all persons on paid sick leave, paid holidays, and paid vacation during the pay period indicated, as well as those actually working. If a corporation, include officers; if an unincorporated concern, exclude proprietors or partners.</p>					<p>b. Payroll for the FIRST QUARTER of 1972</p> <p>Mil. Thou. Dol.</p> <p>061 _____ _____</p>																																																																												
					<p>c. Number of paid employees for the pay period including March 12, 1972</p> <p>062 Number _____</p>																																																																												
Item 6 - COMPANY ORGANIZATION																																																																																	
<p>a. Is the first digit of your Census File Number (imprinted in the address box) a zero (0)?</p> <p><input type="checkbox"/> YES - Answer b, c, and d <input type="checkbox"/> NO - SKIP to Item 7</p>					<p>Enter the company name and address (street name and number, city, State, ZIP code) and E.I. number. If more space is needed to list companies, attach a separate sheet providing same information required below.</p>																																																																												
<p>b. Is this company owned or controlled by another company?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>					<p>Owning or controlling company _____ E.I. No. (9 digits) _____</p>																																																																												
<p>c. Does this company own or control any other company or companies?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>					<p>Owning or controlled company _____ E.I. No. (9 digits) _____</p>																																																																												
<p>d. YOUR BUSINESS LOCATIONS</p> <p>(1) At how many locations did you operate this business during 1972? (Include all selling or service locations and any other facilities such as warehouses, administrative offices, etc.)</p> <p>Number of locations _____ If more than one location, complete (2) below.</p> <p>(2) List each location (including main location). If more space is needed, attach separate sheet providing same information required below.</p>																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Census use only</th> <th rowspan="2">Physical address of business location (Street name and number, city, State, ZIP code)</th> <th rowspan="2">Census use only</th> <th rowspan="2">Kind of business at this location (b)</th> <th colspan="3">Sales and receipts (c)</th> <th colspan="3">Annual payroll (d)</th> <th rowspan="2">Number of employees * (e)</th> </tr> <tr> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td>070</td> <td>1.</td> <td>071</td> <td></td> <td>072</td> <td></td> <td></td> <td>073</td> <td></td> <td></td> <td>074</td> </tr> <tr> <td>070</td> <td>2.</td> <td>071</td> <td></td> <td>072</td> <td></td> <td></td> <td>073</td> <td></td> <td></td> <td>074</td> </tr> <tr> <td>070</td> <td>3.</td> <td>071</td> <td></td> <td>072</td> <td></td> <td></td> <td>073</td> <td></td> <td></td> <td>074</td> </tr> <tr> <td>070</td> <td>4.</td> <td>071</td> <td></td> <td>072</td> <td></td> <td></td> <td>073</td> <td></td> <td></td> <td>074</td> </tr> <tr> <td colspan="11" style="text-align: center;">TOTAL (Totals should equal entries in items 4a and 5a and 5c)</td> </tr> </tbody> </table>										Census use only	Physical address of business location (Street name and number, city, State, ZIP code)	Census use only	Kind of business at this location (b)	Sales and receipts (c)			Annual payroll (d)			Number of employees * (e)	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.	070	1.	071		072			073			074	070	2.	071		072			073			074	070	3.	071		072			073			074	070	4.	071		072			073			074	TOTAL (Totals should equal entries in items 4a and 5a and 5c)										
Census use only	Physical address of business location (Street name and number, city, State, ZIP code)	Census use only	Kind of business at this location (b)	Sales and receipts (c)			Annual payroll (d)							Number of employees * (e)																																																																			
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070	4.	071		072			073			074																																																																							
TOTAL (Totals should equal entries in items 4a and 5a and 5c)																																																																																	
Item 7 - SOURCE OF SALES OR RECEIPTS																																																																																	
<p>List below the principal lines of merchandise sold, kinds of construction work done, products manufactured or mined, or services performed and indicate the approximate percentage each was of your total receipts (item 4a) in 1972.</p>																																																																																	
<p>Lines of merchandise sold, types of construction activity, types of services, and products manufactured or mined</p>								<p>Percentage of total receipts shown in item 4a</p>																																																																									
Item 8 - SALES OR RECEIPTS BY CLASS OF CUSTOMER																																																																																	
<p>Report the approximate percentage of your total 1972 sales or receipts for each class of customer.</p>					<p>a. General public (household consumers and individuals)</p> <p>262 _____ %</p>																																																																												
					<p>b. Builders, contractors, applicators</p> <p>263 _____ %</p>																																																																												
					<p>c. Other retailers</p> <p>264 _____ %</p>																																																																												
					<p>d. Wholesale organizations</p> <p>265 _____ %</p>																																																																												
					<p>e. Institutional, industrial, commercial, professional and farm users (for use in farm production) and government</p> <p>266 _____ %</p>																																																																												
					<p>f. Other (Specify)</p> <p>267 _____ %</p>																																																																												
<p>Item 9</p> <p>Name of person to contact regarding this report _____ Address (if different from label address) _____ Telephone _____</p> <p>Area code _____ Number _____ Extension _____</p>																																																																																	
<p>CERTIFICATION</p> <p>This report is substantially accurate and covers the period from _____ to _____</p> <p>Signature of authorized person _____ Title _____ Date _____</p>																																																																																	

* Report number of paid employees for the pay period including March 12, 1972.

APPENDIX C - Continued

PENALTY FOR FAILURE TO REPORT DUE DATE: February 15, 1973		Form Approved: O.M.B. No. 41-571102	
NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.		FORM MC-M6 (SIC 2842) U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS 1972 CENSUS OF MANUFACTURES CLASSIFICATION REPORT CHEMICALS, HOUSEHOLD	
In correspondence pertaining to this report, please refer to this Census File Number <div style="text-align: center; margin-top: 20px;">MC-M6 (SIC 2842)</div>		Please complete this form and RETURN TO BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130	
Please correct errors in name, address and ZIP code. ENTER street and number if not shown.		IMPORTANT - PLEASE READ Please complete this form and return it in the enclosed envelope as soon as you can, but not later than February 15, 1973.	
Please complete form on reverse			

Mark the ONE box which best describes your principal activity in 1972.			
217500 <input type="checkbox"/> Manufacturing household insecticides and repellents			
4-2	217700 <input type="checkbox"/> Manufacturing polishes, specialty cleaning and sanitation goods, nonpersonal deodorants, etc., except household insecticides and repellents		
_____ <input type="checkbox"/> Other - Please specify whether business activity is manufacturing, mining, merchandising, or other services. List most important products produced, or sold, or services rendered.			
CERTIFICATION		Name of person to contact	
Signature of authorized person		Address (Number, street, city, State, ZIP code)	
Title		Date	

FORM MC-M6

APPENDIX C—Continued

PENALTY FOR FAILURE TO REPORT DUE DATE: **FEBRUARY 15, 1973** Form Approved: O.M.B. No. 41-571021

Form NC-X6 (Rev.) SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS

1972 ECONOMIC CENSUSES
CENTRAL ADMINISTRATIVE OFFICE OR
AUXILIARY ESTABLISHMENT

PLEASE COMPLETE THIS FORM AND RETURN TO **BUREAU OF THE CENSUS**
1201 East Tenth Street
Jeffersonville, Indiana 47130

PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT
If calendar year records are not available, fiscal year reports for the periods ending between October 31, 1972 and February 28, 1973 are acceptable. If book figures are not available, carefully prepared estimates are acceptable. If filing by due date causes an undue burden, a request for an extension of time should be sent to the above address. Please mention the 11-digit Census File Number in the upper left of the address box if you write regarding this report.
This report should cover ONLY the establishment identified in the address box.
(Please correct any error in name and address including ZIP code)

NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report please refer to this Census File Number Employer Identification Number

ITEM 1 NAME AND PHYSICAL LOCATION OF ESTABLISHMENT
The purpose of this inquiry is to determine the place (city, county, etc.) where your business is actually located (which may differ from the mailing address) so that the data can be tabulated in the correct geographic area.
a. Name of this establishment, IF DIFFERENT from that appearing in the address box. Name
b. Is your business establishment PHYSICALLY located at the address shown in the address box of this form?
☐ YES - Proceed to c and d ☐ NO - Enter PHYSICAL location Also answer c and d
If location cannot be described by street name and number, give as much information as possible such as name of shopping center, street intersection, highway number or distance from nearest town, etc.
Street name and number
Place (city or village, etc.) State ZIP code
c. Is this business establishment located WITHIN the LEGAL boundaries of the city, village, etc., which you indicate is its PHYSICAL location? 1 ☐ Yes 2 ☐ No
d. In what county is your business establishment PHYSICALLY located? County

ITEM 2 EMPLOYER IDENTIFICATION NUMBER
a. Is the Employer Identification (EI) Number printed in the address box the SAME as that used for this establishment on your latest 1972 Employer's Quarterly Federal Tax Return, Treasury Form 941? ☐ Yes ☐ No - If "No," enter the currently assigned EI number here (9 digits)
b. Did this establishment also use any other Employer Identification (EI) Number during 1972? ☐ Yes - If "Yes," enter EI number(s) (9 digits) ☐ No

ITEM 3 LEGAL FORM OF ORGANIZATION OF COMPANY OPERATING THIS ESTABLISHMENT (MARK ONE)
010 ☐ 1 Individual proprietor ☐ 8 Co-op (cooperative association), corporate or noncorporate
☐ 2 Partnership ☐ 9 Other - Specify
☐ 0 Corporation (Do NOT mark if any form of cooperative association)

ITEM 4 PRINCIPAL ACTIVITY OF THIS ESTABLISHMENT IN 1972
Mark the ONE item that BEST describes the PRINCIPAL activity of this establishment. If none applies, mark item (j) and enter a description of your principal activity. MARK ONE ITEM ONLY.
011 ☐ 1 a. Centralized administration (i.e., supervisory functions of a central, home, general, branch, divisional or district office) ☐ 3 c. Warehousing ☐ 4 f. Trading stamp redemption
☐ 2 b. Management and other supporting services (e.g., purchasing or buying office, accounting office, legal office, public relations office, etc.) ☐ 7 d. Chainstore warehousing (i.e., a combination of administrative and warehousing activities described in a, b, and c) ☐ 8 g. Selling
☐ 2 e. Research, development, and testing ☐ 9 h. Repair service
☐ 9 j. Other ☐ 6 i. Electronic data processing

ITEM 5 PRINCIPAL ACTIVITIES OF YOUR COMPANY SERVICED BY THIS ESTABLISHMENT IN 1972
a. Does this establishment perform the above described management, general administrative functions, or other supporting services primarily for establishments of your company (rather than for other business firms or for the general public)? 012 ☐ 1 Yes - Complete items 5b, c, and d ☐ 2 No - Skip to item 6
b. Does this establishment perform these management and administrative functions or services for all establishments of your company? ("Your company" refers to the parent firm and all its subsidiaries under common ownership or control.) 013 ☐ 1 Yes ☐ 2 No
c. Mark the principal kind of business or industrial activity of the establishments of your company that are managed or serviced by this central office or auxiliary.
014 ☐ 1 Minerals extraction, quarrying, production, or exploration ☐ 3 Construction (including general contracting, subcontracting, home building, and land subdividing and developing)
☐ 2 Manufacturing (fabricating, assembling, or processing materials into new products; also includes publishing and printing) ☐ 4 Manufacturer sales branches or other wholesale operations
☐ 5 Retail stores ☐ 6 Other - Describe
d. List in order of importance, the principal products made, kinds of retail or wholesale business operated, types of services rendered, or construction activities performed by the establishments that are managed or serviced by this central office or auxiliary.
(1) (3)
(2) (4)

IMPORTANT - Figures for dollars should be reported in thousands. If you wish you may report to the nearest dollar. In either case, please be careful to enter your figures in the correct columns.
EXAMPLE: If payroll is \$1,125,628
MIL- THOU- DOL-
lions- sands- lars-
000 000 000
PREFERRED method . . . 1 126
Acceptable method . . . 1 125 628

ITEM 6 PAYROLL AND EMPLOYMENT AT THIS ESTABLISHMENT DURING 1972
a. Payroll - Report the payroll of persons employed at this establishment, including its traveling personnel. Do not include the payroll of employees working in or from other establishments of your company, however, even though paid from this location. (The number and payroll of such employees should be included in the 1972 Census reports for the establishments at which they were actually employed.)
b. Employment by function - Report the number of employees employed at this establishment according to the principal functions performed during the pay period including March 12, 1972.
Where records do not provide actual employee counts in terms of the functions listed, estimates of the approximate number in each are acceptable. Those persons performing a variety of functions should be reported in their PRIMARY activity during that pay period, or allocated on some other reasonable and consistent basis (e.g., by converting the total number of man-hours or man-days expended during the pay period into the average number of employees in each activity).
c. Were the employees and payroll reported above also reported in any other 1972 Census establishment report form of your company i.e., in the Census Forms MA-, MC-, CB-, or CC-series?
a. Payroll during 1972. (Enter the total wages, salaries, bonuses, commissions, and other remuneration paid to employees of this establishment during 1972, before payroll deductions) Key Mil. Thou. Dol.
050
b. Employment by function for pay period including March 12, 1972 Key Number of employees
(1) Centralized administration (e.g., various management functions of a general, home, or district office) 051
(2) Research, development, and testing 052
(3) Warehousing 053
(4) Sales to customers directly from this location 054
(5) Trading stamp redemption 055
(6) Electronic data processing 056
(7) Other - Specify 057
(8) TOTAL NUMBER OF EMPLOYEES (Sum of lines 1 through 7) 058
Yes - If "Yes," please give the 11-digit CENSUS FILE NUMBER of that report
No

Please continue on page 2

APPENDIX C -Continued

FORM NC-X6 (Rev.)

Page 2

ITEM 7 SALES MADE BY THIS ESTABLISHMENT DURING 1972 TO CUSTOMERS OUTSIDE YOUR COMPANY		Key	Mil.	Thou.	Dols.												
<p>a. Report all sales made by this establishment during 1972 (merchandise sales, receipts for services, and other business receipts) to customers outside your company. Include excise taxes and sales taxes paid directly to taxing agencies. Exclude intracompany transfers to other domestic establishments of your company; however, include export transfers to your foreign subsidiaries. Exclude sales to outside customers made by OTHER establishments of your company, even though billed centrally by this establishment. (Report such sales on the 1972 Census forms of these other establishments.)</p> <p>b. List principal products sold or services rendered by this establishment to customers outside your company, and their approximate percent of 1972 sales and receipts, as reported in item 7a above.</p> <table border="1"> <thead> <tr> <th>Principal products sold or services rendered</th> <th>Percent of sales and receipts in 1972</th> <th>Principal products sold or services rendered</th> <th>Percent of sales and receipts in 1972</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>%</td> <td>(3)</td> <td>%</td> </tr> <tr> <td>(2)</td> <td>%</td> <td>(4)</td> <td>%</td> </tr> </tbody> </table>		Principal products sold or services rendered	Percent of sales and receipts in 1972	Principal products sold or services rendered	Percent of sales and receipts in 1972	(1)	%	(3)	%	(2)	%	(4)	%	060			
Principal products sold or services rendered	Percent of sales and receipts in 1972	Principal products sold or services rendered	Percent of sales and receipts in 1972														
(1)	%	(3)	%														
(2)	%	(4)	%														
<p>ITEM 8 BILLINGS BY THIS ESTABLISHMENT IN 1972 TO RETAIL STORES OF YOUR COMPANY</p> <p>Report at cost value all merchandise billed by this establishment in 1972 to retail stores of your company. Include all billings, whether or not the merchandise was shipped directly by the supplier to your retail stores or shipped from this establishment. Exclude purchases made directly by your individual stores. Exclude billings to establishments other than your retail stores. Exclude sales to retail stores of other companies, and franchise sales (which should be reported in item 7a above.)</p>		Total billings by this establishment in 1972 to retail stores of your company	065														
<p>ITEM 9 INVENTORIES AT BEGINNING AND END OF 1972</p> <p>Report all inventories of this establishment at current cost (if feasible), rather than sales price. Exclude inventories reported by other establishments of your company on their 1972 Census establishment forms.</p>		Value of inventories of this establishment:															
		a. BEGINNING of 1972	088														
		b. END of 1972	089														
<p>ITEM 10 CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT DURING 1972 (EXCLUDE LAND AND MINERAL RIGHTS)</p> <p>Report all capital expenditures actually made during 1972 for this establishment, including major alterations, capitalized repairs and improvements. "Capital expenditures" refer to all costs that are chargeable to property accounts for which depreciation or amortization accounts are ordinarily maintained. Include the cost of all improvements and new construction at this establishment which were in progress but had not been completed at the end of 1972. Include expenditures made by your company (or any of its subsidiaries) for structures which, upon completion, were or are to be sold and leased back to this establishment. Include transfers of used plant and equipment to your establishment from other establishments of your company. Exclude the cost of land and mineral rights. Exclude the cost of maintenance and repairs charged as current operating expense. Exclude capital expenditures made by outside owners of property rented or leased to this establishment. Exclude capital expenditures made by this establishment for other locations of your company.</p>		Type of capital expenditures:															
		a. New structures and additions to plant	070														
		b. New machinery and new equipment	071														
		c. Used plant and used equipment acquired from others (including transfers from other establishments of your company)	072														
		d. TOTAL CAPITAL EXPENDITURES DURING 1972 (Sum of lines a, b, and c)	074														
<p>ITEM 11 CHANGES IN GROSS VALUE OF DEPRECIABLE ASSETS OF THIS ESTABLISHMENT DURING 1972</p> <p>Report the changes in gross value of depreciable assets of this establishment for which depreciation or amortization accounts are ordinarily maintained. "Gross value" represents the acquisition cost (original cost or other basis) to your company of such depreciable assets. Include all depreciable assets (buildings, structures, machinery, equipment, etc.) and all amortizable fixed assets. Include all improvements and new construction "in progress" during 1972 but not yet completed at the end of 1972. Also include the value of depreciable assets owned by this establishment but leased or rented to other companies. Include the value of depreciable assets owned by your company or any of its subsidiaries but "leased" to this establishment. Exclude the value of depreciable assets at other locations of your company (or any of its subsidiaries) for which this establishment maintains records.</p>		a. Gross value of depreciable assets at BEGINNING of 1972	075														
		b. Total capital expenditures during 1972 (Copy figure from item 10d)	076														
		c. Gross value of depreciable assets sold, retired, transferred, scrapped or destroyed during 1972	078														
		d. Gross value of depreciable assets, at END of 1972 (Should equal lines a + b - c. If not, please comment in "Remarks.")	079														
<p>ITEM 12 RENTAL PAYMENTS MADE FOR THIS ESTABLISHMENT DURING 1972 (EXCLUDE LAND)</p> <p>Report all rental payments made or accrued during 1972 to OUTSIDE firms which own the plant and equipment rented or leased by this establishment. Exclude rental payments made by this establishment to your parent company or any of its subsidiaries. (The gross value of such company-owned assets should be reported in item 11, however, as if actually owned by this establishment.) Exclude rental payments made by this establishment for plant and equipment located at other establishments of your company. In reporting rents paid (or equivalent charges) for use of "Buildings and structures," exclude separately identified fees for leasing of land (such as ground rents). Under "Machinery and equipment," be sure to include rental payments, (or equivalent charges), for use of transportation equipment, office equipment, computer systems, passenger cars, and all other types of machinery or equipment.</p>		Rental payments made for this establishment:															
		a. For use of BUILDINGS AND STRUCTURES (excluding land)	085														
		b. For use of MACHINERY AND EQUIPMENT	086														
		c. TOTAL RENTAL PAYMENTS (Sum of lines a and b)	087														
<p>ITEM 13 COST OF RESEARCH AND DEVELOPMENT PERFORMED AT THIS ESTABLISHMENT DURING 1972</p> <p>"Cost" should include all costs incurred at this establishment during 1972 to support research and development activities (i.e. wages and salaries; direct materials costs; services and supporting costs; and an appropriate share of depreciation and overhead). If this establishment performed research and development for the Federal government or for other companies on contract during 1972, include the total amount charged for such work performed. (Also, report such receipts in item 7 above.) If this establishment performed research and development for your own company or its subsidiaries, include the total amount of company funds provided for such work performed.</p>		Type research and development performed:															
		a. Federal contracts and subcontracts	095														
		b. Research and development performed with other (non-Federal) funds from outside your company	096														
		c. Research and development performed with funds from within your company	097														
		d. TOTAL COST OF RESEARCH AND DEVELOPMENT DURING 1972 (Sum of lines a, b, and c)	098														
<p>ITEM 14 WAREHOUSE STORAGE SPACE, AS OF DECEMBER 31, 1972</p> <p>If you reported any employees in item 6b, line (3) "Warehousing," complete this item. Exclude floor space occupied by interior walls, permanent aisles, elevator shafts, stairways, offices, receiving and shipping platforms, etc.</p>		Occupable floor space (under roof) - occupied and unoccupied - of this establishment	099														
Remarks																	
<p>ITEM 15 Name and address (including ZIP code) of person to contact regarding this report</p> <p>Telephone</p> <p>Area code Number Extension</p>																	
<p>CERTIFICATION This report is substantially accurate and covers the period from _____ to _____</p> <p>Signature of authorized person Title Date</p>																	

© GPO : 1972 O - 467-748

APPENDIX C—Continued

PENALTY FOR FAILURE TO REPORT

DUE DATE FEBRUARY 15, 1973

O.M.B. No. 41-S-1047: Approval Expires December 31, 1974

FORM NC-K1 (9991) U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS		NOTICE —Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.
1972 ECONOMIC CENSUSES COMPANY SUMMARY REPORT		In correspondence pertaining to this report please refer to CENSUS FILE NO.
PLEASE COMPLETE THIS FORM AND RETURN TO BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130		Name and address—Please correct errors in name, address and ZIP code. ENTER street and number if not shown.
If filing by due date causes an undue burden, a request for an extension of time should be sent to the above address.		

PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

This form will provide you and the Bureau of the Census with a systematic means for assuring that all domestic activities of your company and its subsidiaries have been accounted for in the 1972 Censuses of Business (i.e., Retail Trade, Wholesale Trade, Selected Services), Construction, Manufactures, and Mineral Industries. For the purposes of this report, "domestic" activities should include all 50 States and the District of Columbia. It should not include activities of your firm in foreign countries. (Note—Your Puerto Rico activities, if any, should be included in items 2 and 3 below but excluded from items 4 through 11 on page 2 of this report.)

Please complete Form NC-K1, "Company Summary Report," after you have prepared all required 1972 Census establishment reports for your company and its subsidiaries, but before you return these completed reports to the Bureau of the Census. Preparing this Company Summary Report prior to returning the completed establishment reports may help you to discover more readily and to correct promptly any omission or duplication of reports for those establishments which should be covered in the 1972 Economic Censuses. In turn, this will speed up the Census Bureau's processing of your company report forms and will minimize any correspondence regarding coverage.

ITEM 1 GENERAL INFORMATION

a. Name of company _____		c. Legal form of organization of company—Mark one <input type="checkbox"/> 1 Individual proprietor <input type="checkbox"/> 2 Partnership <input type="checkbox"/> 3 Corporation (Do not mark if any form of cooperative association.) <input type="checkbox"/> 4 Co-op (Cooperative association), corporate or noncorporate <input type="checkbox"/> 5 Other—Specify _____	
b. Company organization Is the above-named company owned or controlled by another company? (If "Yes," please give employer identification number, company name, and address of controlling company.) <input type="checkbox"/> Yes → Employer Identification Number (9 digits) → _____ <input type="checkbox"/> No → Company name _____ Street name and address _____ City _____ State _____ ZIP code _____			

ITEM 2 EMPLOYMENT SUMMARY OF YOUR COMPANY AND ITS SUBSIDIARIES DURING 1972

Column (a) lists the Employer Identification (E.I.) Numbers assigned to your company, based on information you reported on the 1972 Census Form NC-X1 (A, B, or C), "Report of Company Organization." Column (b) lists the number of paid employees for the pay period including March 12, 1972, also as reported on Census Form NC-X1 (A, B, or C). Please update this list to correct any errors and to add to column (a) any E.I. numbers covering domestic activities which are not listed, but which were used by your company or any of its domestic subsidiaries at any time during 1972. Then, complete columns (b) through (h) for each E.I. number—either prelisted or added by you. (Use item 2 Continuation sheet if necessary.)

NOTE: All employment figures (columns b through d) are for the pay period including MARCH 12, 1972

Line number	Employer Identification Number(s) used by your company during 1972	Number of employees as previously reported on Census Form NC-X1 (A, B, or C)	Employees in domestic establishments as reported on your 1972 Census forms for the pay period including March 12, 1972	Employees in domestic establishments as reported on your 1972 Economic Census forms (i.e., agriculture; railroads; pipelines; radio and TV stations; insurance agencies; banks, etc.)	Description of these activities not reported on your Census forms	Total payroll for the year 1972 for these activities not reported on your Census forms THOUSANDS OF DOLLARS (\$000) (f)	Is this E.I. number used to report Federal employment taxes? MARK (X)		FOR CENSUS USE ONLY
							YES (g)	NO (h)	
1									
2									
3									
4									
5									
6									
7									
8									
9	Subtotal from item 2 Continuation sheet, if any								
10	TOTAL All Employer Identification Numbers								

ITEM 3 COVERAGE CHECK OF COMPANY EMPLOYMENT TOTALS

a. Comparison of COMPANY employment with ESTABLISHMENT employment for the pay period including March 12, 1972. Enter employment totals from item 2, line 10: (1) From column (c), total _____ (2) From column (d), total _____ (3) Sum of figures above _____ (4) Sum of company employment for pay period including March 12, 1972. (From column (b), total) _____	b. If the two figures in lines (3) and (4) of item 3a differ by more than 5 percent, please verify the reported figures in item 2. (For each Employer Identification Number, compare the column (b) figure with the sum of columns (c) and (d). These totals should ordinarily be equal for each E.I. number, if all employment has been accounted for.) If, after such verification, a company-wide difference in excess of 5 percent still exists, please explain: _____
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Please continue on page 2

APPENDIX C—Continued

FORM NC-K1

Page 2

INSTRUCTIONS FOR SELECTED COMPANY STATISTICS FOR 1972 (ITEMS 4 - 11)

Please report the following items on a consolidated basis for the DOMESTIC ACTIVITIES of your company and ALL its subsidiaries. Do not include foreign activities, if any, (except for reporting foreign assets in item 11). Consolidate all domestic activities, whether or not covered in the 1972 Census by individual report forms. If calendar year records are not available, fiscal year reports for the periods ending between October 31, 1972 and February 28, 1973 are acceptable. If book records are not available, enter your best estimates. Before completing these items, please read the detailed instructions.

IMPORTANT - Figures for dollars should be reported in thousands. If you wish you may report to the nearest dollar. In either case, please be careful to enter your figures in the correct column.

EXAMPLE: If payroll is \$1,125,628

PREFERRED method . . . \$ 1 125 628
Acceptable method . . . \$ 1 125 628

Item	Description	Key	Mil.	Thou.	Dol.
ITEM 4	COMPANY PAYROLL DURING 1972 Report total wages, salaries, bonuses, commissions, and other remuneration paid by your company and its subsidiaries at domestic establishments and facilities during 1972 before payroll deductions.				
	Total company payroll during 1972	050	\$		
ITEM 5	COMPANY SALES AND RECEIPTS DURING 1972 Report consolidated net sales and business receipts of your company and its subsidiaries during 1972. Exclude domestic intra-company transfers; exclude sales BY foreign subsidiaries; exclude non-operating income. Include sales to customers OUTSIDE your company; include excise taxes and sales taxes paid by your company directly to Federal, State, or local taxing agencies; include export transfers TO your foreign subsidiaries.				
	a. Net company sales and business receipts during 1972	060			
	b. Does the entry in 5a above include Yes No excise and sales taxes paid directly to taxing agencies? 1 <input type="checkbox"/> 2 <input type="checkbox"/>	061			
	c. If "No," report here the amount of such taxes paid by your company and its subsidiaries during 1972	062			
ITEM 6	CAPITAL EXPENDITURES DURING 1972 (EXCLUDE LAND AND MINERAL RIGHTS) Report all capital expenditures actually made during 1972 by your company and its subsidiaries for all domestic establishments and facilities. "Capital expenditures" refer to all costs that are chargeable to fixed assets accounts of your company for which depreciation or amortization accounts are ordinarily maintained; include major alterations, capitalized repairs and improvements; include expenditures made in 1972 for establishments under construction but not yet in operation. Exclude capital expenditures made by owners of property rented or leased by your firm and its subsidiaries; include expenditures made by your firm and its subsidiaries for structures which, on completion, were or are to be sold and leased back by your firm. Exclude cost of land, mineral rights, and cost of maintenance and repair charged as current and operating expenses; exclude capital expenditures by subsidiaries in foreign countries.				
	Type of capital expenditures				
	a. New structure and new additions to plant	070			
	b. New machinery and new equipment	071			
	c. Used plant, machinery, and equipment acquired from others	072			
	d. Capitalized development and exploration of mineral properties	073			
	e. TOTAL CAPITAL EXPENDITURES DURING 1972 (Sum of lines a, b, c, and d)	074			
ITEM 7	CHANGES IN DEPRECIABLE ASSETS DURING 1972 Report the value of depreciable assets of your company and its subsidiaries for which depreciation or amortization accounts are ordinarily maintained. "Gross value" represents the acquisition cost (original cost or other basis) to your company of such fixed depreciable assets. Include depreciable assets for all domestic establishments and facilities. Exclude depreciable assets of your company and its subsidiaries in foreign countries. These assets should be reported in item 11c below. Include all depreciable assets (buildings, structures, equipment, etc.) and amortizable fixed assets. Exclude depletable assets (land, timber, and mineral rights) and non-fixed assets (inventories, cash, accounts receivable, etc.) These assets should be reported in item 11b below. Include in the value of assets all improvements and new construction that were "in-progress" but not yet completed at the end of 1972. Also include the value of depreciable assets (machinery, equipment, buildings, structures, computer equipment, etc.) owned by your company and its subsidiaries, but leased or rented to other companies.				
	a. Gross value (original cost or other basis) of depreciable assets owned by your company, as of BEGINNING of 1972	075			
	b. Total capital expenditures DURING 1972 (Copy figure from item 6e.)	076			
	c. Other acquisitions by your company (by merger, exchange of stock, etc.) of depreciable assets DURING 1972 (if not included in line b above)	077			
	d. Deductions from depreciable assets DURING 1972 (i.e., gross value of assets sold, retired, scrapped, or destroyed; and other adjustments)	078			
	e. Gross value (original cost or other basis) of depreciable assets owned by your company, as of END of 1972 (Lines a + b + c - d)	079			
ITEM 8	CHANGES IN DEPRECIATION RESERVES DURING 1972 In line a include total depreciation reserves as of the beginning of 1972 for the assets included in item 7, line a. In line b include additions made to depreciation reserves during 1972 for assets owned at the beginning of the year or acquired during the year. Exclude depletion reserves and reserves for intangible assets. Exclude depreciation of assets held in foreign countries. Such assets should be reported in item 11c below.				
	a. Accumulated depreciation as of BEGINNING of 1972	080			
	b. Depreciation charges against assets DURING 1972, (including charges against those acquired or completed during the year)	081			
	c. Additions charged to other accounts DURING 1972	082			
	d. Deductions from reserves for retirements, renewals, and replacements during 1972	083			
	e. Accumulated depreciation as of END of 1972 (Lines a + b + c - d)	084			
ITEM 9	RENTAL PAYMENTS MADE DURING 1972 (EXCLUDE LAND) Report all rental payments made or accrued during 1972 to other firms which own the plant and equipment rented or leased by your company and its subsidiaries. In reporting rents paid (or equivalent charges) for use of "Buildings and structures," exclude separately identified fees for leasing of land (such as ground rents). Under "Machinery and equipment," be sure to include rental payments (or equivalent charges) for use of production machinery, office equipment, computer systems, passenger cars, trucks, materials handling equipment, and all other types of machinery or equipment.				
	Rental payments made by your company				
	a. For use of BUILDINGS AND STRUCTURES (excluding land)	085			
	b. For use of MACHINERY AND EQUIPMENT (including furniture and fixtures)	086			
	c. TOTAL RENTAL PAYMENTS DURING 1972 (Sum of lines a and b)	087			
ITEM 10	INVENTORIES, AS OF BEGINNING AND END OF 1972 Report all inventories of your company and its subsidiaries at the beginning and end of 1972 on a comparable basis. Inventories should include: finished products; work-in-process; and materials, supplies, fuels, etc. Exclude inventories of subsidiaries in foreign countries. In aggregating the inventories of your company and its subsidiaries, report value on a current cost basis, if feasible, otherwise at book value.				
	Value of inventories:				
	a. All inventories, as of BEGINNING of 1972	088			
	b. All inventories, as of END of 1972	089			
ITEM 11	TOTAL COMPANY ASSETS, AS OF END OF 1972 Report the balance sheet assets of your company and its subsidiaries on a consolidated basis. Lines a and b should include only domestic assets of your company and its subsidiaries. Line c should include all assets of your company and its subsidiaries in foreign countries, regardless of type. Report all foreign assets on a NET basis. (Line c)				
	Type of company assets:				
	a. Net value of depreciable assets (Should equal line 7e less 8e)	090			
	b. All other domestic assets (i.e., inventories, cash, accounts receivable, land, etc.)	091			
	c. Net foreign assets (i.e., assets located in foreign countries)	092			
	d. TOTAL COMPANY ASSETS, AS OF END OF 1972 (Sum of lines a, b, and c)	093			
Remarks					
ITEM 12	Name and address (including ZIP code) of person to contact regarding this report	Telephone			
		Area code	Number	Ext.	
CERTIFICATION	This report is substantially accurate and covers the period from _____ to _____				
	Signature of authorized person	Title	Date		

APPENDIX C —Continued

PENALTY FOR FAILURE TO REPORT DUE DATE: FEBRUARY 15, 1973 Form Approved: O.M.B. No. 41-571102

Form MC-36B (3602) U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS

1972 CENSUS OF MANUFACTURES SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROL

Please complete and return this form as soon as possible after receipt to: BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130

PLEASE READ ACCOMPANYING INSTRUCTION SHEET AND INSTRUCTIONS WITH EACH ITEM BEFORE COMPLETING

If book figures are not available, carefully prepared estimates are acceptable. Complete every item. Please enter the 11-digit number in the Census File Number space provided at the top of all odd-numbered pages.

If filing by due date causes an undue burden, a request of an extension of time should be sent to the above address. Please mention the 11-digit Census File Number in the upper left of the address box if you write regarding this report.

NOTICE — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees, and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this Census File Number: Employer Identification Number

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

ITEM 1A PHYSICAL LOCATION OF MANUFACTURING ESTABLISHMENT

The purpose of this inquiry is to determine the place (city, county, etc.) where your plant is actually located (which may differ from the mailing address) so that the data can be tabulated in the correct geographic area.

a. Is your manufacturing establishment physically located at the address shown in the address box in the right hand corner of this form?

☐ NO — Enter PHYSICAL location here

Also answer b and c

Street name and number

Place (City or village, etc.)

State ZIP code

☐ YES — Answer b and c

If location cannot be described by street name and number, give as much information as possible such as street intersection, highway number or distance from nearest town, etc.

b. Is your manufacturing establishment located WITHIN the LEGAL boundaries of the city, village, etc., which you indicate is its PHYSICAL location?

☐ YES ☐ NO

c. In what county is your manufacturing establishment PHYSICALLY located?

County

ITEM 4 Plant man-hours of production workers by quarter

Complete each item, enter "0" when appropriate

Key	Mil. 000	Thou. 000	Hrs. 000
a. January through March	314		
b. April through June	315		
c. July through September	316		
d. October through December	317		
e. TOTAL MAN HOURS (Item 4)	318		

ITEM 5 Cost of materials, resales, fuels, electricity, and contract work

(Delivered cost including freight and other direct charges)

Key	Mil. 000	Thou. 000	Dol. 000
a. Cost of materials, parts, components, containers, etc., consumed	321		
b. Cost of products bought and resold	322		
c. Cost of fuels consumed	323		
d. Cost of purchased electricity	324		
e. Cost of contract work done for you by others on your materials	325		
f. TOTAL COST (Item 5)	326		

ITEM 6 Inventories of this establishment

(Valuation should be on a comparable basis for both periods)

Key	JANUARY 1, 1972			DECEMBER 31, 1972		
	Mil. 000	Thou. 000	Dol. 000	Mil. 000	Thou. 000	Dol. 000
a. Finished products	331			332		
b. Work-in-process	333			334		
c. Materials, supplies, fuels, etc.	335			336		
d. TOTAL INVENTORIES (Item 6)	337			338		

ITEM 7 Capital expenditures during year (exclude land)

(See instructions for details)

Key	Mil. 000	Thou. 000	Dol. 000
a. New structures and new additions to this plant (Exclude land)	341		
b. New machinery and new equipment	342		
c. Used plant and used equipment acquired from others	343		
d. TOTAL CAPITAL EXPENDITURES (Item 7)	344		

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ITEM 582

APPENDIX C—Continued

Form MC-36B

Page 2

ITEM 11	112	MARK ONE BOX																					
Changes in operator or operations during 1972	<input type="checkbox"/> 1	No change in operator or operations	<input type="checkbox"/> 4 Plant dismantled, abandoned, or destroyed on — Date _____																				
	<input type="checkbox"/> 2	Reorganized — Describe in "Remarks," e.g., partnership change or change in corporate status.	<input type="checkbox"/> 5 Plant idle or inactive but still owned — Date _____																				
	<input type="checkbox"/> 3	Started new business — Date _____																					
	<input type="checkbox"/> 6 This establishment was purchased or leased from another company — Complete the following information —>																						
	<input type="checkbox"/> 7 This establishment was sold or leased to another company — Complete the following information —>																						
		Name of former operator or owner	Address (Number, street, city, State, ZIP code)																				
			EI Number (9 digits) - - - - - Date																				
		Name of new operator or owner	Address (Number, street, city, State, ZIP code)																				
			EI Number (9 digits) - - - - - Date																				
NOTE — Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"? <input type="checkbox"/> YES — Complete item 14A, a through d <input type="checkbox"/> NO — Skip to item 15 below																							
ITEM 13A	113	a. Is this company owned or controlled by another company? . . . <input type="checkbox"/> 1 YES — Complete the following information —> <input type="checkbox"/> 2 NO																					
Company affiliation and organization		Name, address, and Employer Identification Number of owning or controlling company	Activity of owning or controlling company (Describe, e.g., manufacturing, retail, wholesale, etc., and chief products sold)																				
		Employer Identification No. - - - - -																					
	114	b. Does this company own or control any other companies? . . . <input type="checkbox"/> 1 YES } If "YES," <input type="checkbox"/> 2 NO c. Does this company operate more than one establishment? . . . <input type="checkbox"/> 1 YES } complete <input type="checkbox"/> 2 NO d. Did this company have any manufacturing plants under construction but not in operation at the end of the year? . . . <input type="checkbox"/> 1 YES } 14B below <input type="checkbox"/> 2 NO																					
ITEM 14B		Name, address, and Employer Identification Number	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">1972 payroll and sales (\$000)</th> <th colspan="2" style="text-align: center;">Are payrolls and sales included on page 1 of this report?</th> </tr> <tr> <th style="width: 15%;">Payroll</th> <th style="width: 15%;">Sales</th> <th style="width: 15%;">YES</th> <th style="width: 15%;">NO</th> </tr> <tr> <td style="height: 40px;">\$</td> <td>\$</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td style="height: 40px;">\$</td> <td>\$</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	1972 payroll and sales (\$000)		Are payrolls and sales included on page 1 of this report?		Payroll	Sales	YES	NO	\$	\$	<input type="checkbox"/>	<input type="checkbox"/>	\$	\$	<input type="checkbox"/>	<input type="checkbox"/>				
1972 payroll and sales (\$000)		Are payrolls and sales included on page 1 of this report?																					
Payroll	Sales	YES	NO																				
\$	\$	<input type="checkbox"/>	<input type="checkbox"/>																				
\$	\$	<input type="checkbox"/>	<input type="checkbox"/>																				
ITEM 15		Other companies owned or established and operated (Complete only if item 14A b or c is marked "YES.")																					
CHECKS to assure a complete and accurate report		The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">"Reasonableness" checks</th> <th style="width: 40%;">Calculation required for each check</th> <th style="width: 15%;">Figures for 1972</th> <th style="width: 15%;">Usual range</th> </tr> </thead> <tbody> <tr> <td>a. Average hourly wages per production worker</td> <td>Item 3Aa (Production workers' wages) ÷ item 4e (Total man-hours)</td> <td>\$</td> <td>\$1 — \$10</td> </tr> <tr> <td>b. Hours worked per week per production worker</td> <td>Item 4e (Total man-hours) ÷ 20 ÷ item 2f (Average number of production workers)</td> <td>Hrs.</td> <td>20 — 60</td> </tr> <tr> <td>c. Salaries and wages per dollar of shipments</td> <td>Item 3Ac (Total payroll) ÷ item 18 (Total value of shipments)</td> <td>\$</td> <td>05¢ — 95¢</td> </tr> <tr> <td>d. Materials cost per dollar of shipments</td> <td>Item 5f (Total materials cost) ÷ item 18 (Total value of shipments)</td> <td>\$</td> <td>05¢ — 95¢</td> </tr> </tbody> </table>				"Reasonableness" checks	Calculation required for each check	Figures for 1972	Usual range	a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4e (Total man-hours)	\$	\$1 — \$10	b. Hours worked per week per production worker	Item 4e (Total man-hours) ÷ 20 ÷ item 2f (Average number of production workers)	Hrs.	20 — 60	c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 18 (Total value of shipments)	\$	05¢ — 95¢	d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 18 (Total value of shipments)	\$	05¢ — 95¢
"Reasonableness" checks	Calculation required for each check	Figures for 1972	Usual range																				
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c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 18 (Total value of shipments)	\$	05¢ — 95¢																				
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 18 (Total value of shipments)	\$	05¢ — 95¢																				
e. Is the total for Value of Shipments (item 18) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? <input type="checkbox"/> YES <input type="checkbox"/> NO — Explain in "Remarks"																							
Remarks																							

Please continue on page 3

APPENDIX C—Continued

Form MC-36B (3602)	U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS 1972 CENSUS OF MANUFACTURES SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS—Continued	PLEASE ENTER YOUR CENSUS FILE NUMBER D	Page 3					
Name of establishment (Same as address box)								
Item 16—INDUSTRIAL WATER USE DURING 1972								
Please indicate the total quantity of water used by this establishment during the calendar year 1972. Include both fresh and brackish water. Include water recirculated and reused. Report the total annual consumption of water; do NOT report hourly, daily, weekly, or monthly rates of consumption. (MARK ONE BOX ONLY)								
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> 360 <input type="checkbox"/> Under 20 million gallons <input type="checkbox"/> 20 to 99 million gallons <input type="checkbox"/> 100 million gallons or more </div>								
Item 17—CONSUMPTION OF SELECTED MATERIALS DURING 1972 Report separately for each listed material that was actually consumed or put in production during 1972.								
Section I—CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS								
INSTRUCTIONS								
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Report delivered cost of the individual items below which were consumed or put in production during 1972. (See General Instructions (item 5) for valuation.)</p> <p>Include materials owned by this establishment but consumed by other establishments to make products for this establishment under contract.</p> <p>(Report cost of contract work in item 5e; and the value of the products produced in item 18.)</p> </div> <div style="width: 45%;"> <p>Exclude materials owned by others used in this plant to make products for other establishments under contract or on commission. However, report receipts for this contract work in item 18.</p> <p>If you consumed some of the specified material but less than \$5,000 worth of the item, enter an (X) in column (E) and include the value with "All other materials, etc."—Code 970099.</p> </div> </div>								
Line number	Materials, parts, and supplies	Census material code	Unit of measure for quantities	Consumption of purchased materials and of materials received from other establishments of your company				
				If \$5,000 or more of the listed item was consumed—			If you consumed some but less than \$5,000 worth of the listed item, enter an (X) in column (E)	
			Quantity	Cost, including delivery cost (freight-in)				
				Millions	Thousands	Dollars		
					000	000	000	
	(A)	(B-1)	(B-2)	(C)	571	572	573	(E)
1	MILL SHAPES AND FORMS (EXCEPT CASTINGS)	Carbon steel						
		Bars and bar shapes	331011	7	Short tons			
2		Sheet and strip	331012	5	Short tons			
3		Plates	331013	3	Short tons			
4		Structural shapes	331015	8	Short tons			
5		All other carbon steel mill shapes and forms	331019	0	Short tons			
6		Alloy steel (except stainless)	331020	8	Short tons			
7	Stainless steel	Sheet and strip	331033	1	Short tons			
8		All other stainless steel mill shapes and forms	331050	5	Short tons			
9	Insulated wire and cable	Report copper content in column (C)	335790	2	Thousand pounds			
10		Report aluminum content in column (C)	335791	0	Thousand pounds			
11	Copper and copper-base alloy	Bare wire (for electrical conduction only)	335728	2	Thousand pounds			
12		Rod, bar, and mechanical wire, including extruded and/or drawn shapes	335102	0	Thousand pounds			
13		Plate, sheet, and strip, including military cups and discs	335123	6	Thousand pounds			
14		Pipe and tube	335127	7	Thousand pounds			
15	Aluminum and aluminum-base alloy	Sheet, plate, and foil	335202	8	Thousand pounds			
16		Extruded shapes, including extruded rod, bar, pipe, tube, etc.	335205	1	Thousand pounds			
17		All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)	335209	3	Thousand pounds			
18	CASTINGS (ROUGH AND SEMIFINISHED)	Steel	332300	3	Short tons			
19		Aluminum and aluminum-base alloy	336100	3	Thousand pounds			
20		Copper and copper-base alloy	336200	1	Thousand pounds			

Please continue on page 4

APPENDIX C -Continued

Form MC-36B

Item 17 - CONSUMPTION OF SELECTED MATERIALS DURING 1972 - Continued										Page 4
Section I - CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS - Continued										
Line number	Materials, parts, and supplies (A)	Census material code (B-1)	Unit of measure for quantities (B-2)	Consumption of purchased materials and of materials received from other establishments of your company					If you consumed some but less than \$5,000 worth of the listed item, enter an (X) (E)	
				If \$5,000 or more of the listed item was consumed -			Cost, including delivery cost (freight-in) (D)			
				Quantity (C)	Cost, including delivery cost (freight-in) (D)		Thousands	Dollars		
					Millions	000				
21	INDUSTRIAL ELECTRICAL CONTROL EQUIPMENT (Received for incorporation only into other industrial electrical control equipment shipped, as such, by this plant.) Purchased from other companies	571 362200	8		573	\$				<input type="checkbox"/>
22	Received from other plants of your company	571 362209	9		573					<input type="checkbox"/>
23	Thermoplastic resins including modified resins. (Cellulosics, polyethylenes, styrenes, etc. Include solid and liquid, but exclude sheets and other shapes.)	571 282130	4 Thousand pounds	572	573					<input type="checkbox"/>
24	Thermosetting resins (Melamines, phenolics, polyesters, ureas, etc. Include solid and liquid, but exclude sheets and other shapes.)	571 282140	3 Thousand pounds	572	573					<input type="checkbox"/>
25	All other materials and components, parts, containers, and supplies consumed (List the three principal "All other materials, etc." included in the above.)	571 970099	8		573					
26	TOTAL (Sum of lines 1-25 should be same as item 5a.)				\$					
Section II - CONSUMPTION OF CASTINGS PRODUCED IN THIS ESTABLISHMENT AND CONSUMED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT										
INSTRUCTIONS										
<p>Report below the quantity of each listed item produced in this establishment and consumed in manufacturing products made in this establishment.</p> <p>Purchases or receipts of the items specified below should be reported only in section I.</p> <p>Materials used to produce the items specified below should be reported in section I of item 17.</p> <p>Quantities produced for sale as such and not for incorporation in other products should be reported in item 18.</p> <p>Report quantities in the unit of measure specified in column (B-2).</p>										
Line number	Item (A)	Census material code (B-1)	Unit of measure (B-2)	Quantities produced in this establishment and consumed in manufacturing other products made in this establishment						
				(F)						
1	CASTINGS (ROUGH AND SEMIFINISHED) Steel	571 332300	3 Short tons	575						
2	Aluminum and aluminum-base alloy	571 336100	3 Thousand pounds	575						
3	Copper and copper-base alloy	571 336200	1 Thousand pounds	575						
Remarks										

Please continue on page 5

APPENDIX C—Continued

MC-36B <small>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS</small>		1972 CENSUS OF MANUFACTURES SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS - Continued		PLEASE ENTER YOUR CENSUS FILE NUMBER		Page 5			
Item 18 - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1972 <i>Please read the entire list of products and services below before answering this inquiry.</i>				INSTRUCTIONS					
<p>Report net selling value, f.o.b. plant, after discounts and allowances and exclusive of freight charges and excise taxes.</p> <p>Include products made elsewhere for this establishment on a contract basis from materials supplied by this establishment. (The cost of these materials should be included in items 5a and 17.)</p> <p>Exclude products made in this establishment on a contract basis from materials owned by others. Report commission or contract receipts on the appropriate line below. (Exclude materials consumed in making these items from items 5a and 17.)</p>				<p>TIE-IN LINES - This report requests totals for groups of products covered in more detail on Annual Census Surveys MA-36A, "Switchgear, Switchboard Apparatus, Relays and Industrial Controls," MA-38B, "Selected Instruments and Related Products," MA-36K, "Wiring Devices and Supplies," and MA-36N, "Selected Electronic and Associated Products." The relationship of figures between this survey and those above is noted in columns (B-3 and B-4).</p> <p>Line 25 - RESALES - Report the selling value, f.o.b. plant, of products which were resold as originally purchased and not used in further manufacturing, processing, or assembling of products made in this establishment. Report the cost of these products in item 5b.</p>					
Line number	Products and services (A)	Census product code (B-1)	Unit of measure for quantities (B-2)	Corresponds to the sum of products reported on -		Quantity (D)	Products shipped and other receipts Value, f.o.b. plant (E)		
				Census form (B-3)	Code (B-4)		Millions 000	Thousands 000	Dollars 000
1	Switchgear, except ducts and relays (36131)	36131 00	1	MA36A	3613111-3613193		\$		
2	Power circuit breakers, all voltages (36132)	36132 00	9	MA36A	3613243		\$		
3	Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under (36133)	36133 00	7	MA36A	3613311-3613398		\$		
4	Fuses and fuse equipment under 2300 volts, except power distribution cut-outs (36134)	36134 00	5	MA36A	3613431-3613493		\$		
5	Molded case circuit breakers, 750 volts and under (36135)	36135 00	2	MA36A	3613511-3613598		\$		
6	Duct, including plug-in units and accessories, 750 volts and under (36136)	36136 00	0	MA36A	3613611-3613631		\$		
7	Relays, control circuit (36137)	36137 00	8	MA36A	3613701-3613703		\$		
8	General industry power circuit devices and controls - industrial controls (36220)	36220 00	2	MA36A	3622012-3622099		\$		
9	Integrating instruments, electrical	36111 00	3	MA38B	3611110-3611161		\$		
10	Other electrical measuring instruments, excluding instrument transformers	36113 10	8	MA38B	3611308-3611376		\$		
11	Instrument transformers	36113 40	5	MA38B	3611382-3611383		\$		
12	Power mercury arc rectifiers	36292 51	4	Number of units		503	\$		
13	Current-carrying wiring devices, including lightning rods	36430 00	7	MA36K	3643001-3643099		\$		
14	Electric conduit and conduit fittings	36442 00	2	MA36K	3644221-3644272		\$		
15	Resistors for electronic applications	36793 00	8	MA36N	3679311-3679355		\$		
16	Controls for monitoring residential and commercial environments and appliance regulating controls	38220 00	0	MA38B	3822020-3822070		\$		
17	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT					503	\$		
18						503	\$		
19						503	\$		
20						503	\$		
21	CONTRACT WORK						\$		
22	MISCELLANEOUS RECEIPTS						\$		
23							\$		
24							\$		
25	RESALES						\$		
26	TOTAL						\$		
26	(Sum of lines 1-25 column (E))	77000 00	8				\$		

Please continue on page 6

APPENDIX C-Continued

Form MC-36B

Item 19 - Not applicable to this form.					Page 6	
Item 20 - SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1972						
Section I - Were any of the operations listed below performed in this establishment in 1972?					5	Census code
					591	592
					208	1 <input type="checkbox"/> 2 <input type="checkbox"/>
Section II - If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1972. Where "Yes" is marked, show in column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.						
Line number	Operation (A)	Census code (B)	Was this operation performed in this establishment during 1972? (C)		Number of production workers (on all shifts) usually employed when operated (estimate if necessary) (D)	
			YES	NO		
1	Foundry (iron or steel)	018	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
2	Foundry (nonferrous, except die casting)	026	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
3	Electroplating and other plating	059	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
4	Heat treating of metals for production purposes	075	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
5	Automatic screw machine department	083	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
6	Machine shop	091	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
7	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	109	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
8	Pattern shop (foundry patterns only - metal, wood, etc.)	117	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
9	Plate or structural fabrication	125	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
10	Stamping, blanking and forming of metals	133	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
11	Painting, lacquering and enameling on metals	141	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
12	Plastics molding	158	1 <input type="checkbox"/>	<input type="checkbox"/>	593	
Item 21 - Not applicable to this form.						
Remarks						
Item 22		Name of person to contact regarding this report	Address (Number and street, city, State)		ZIP code	Telephone
						Area code Number Extension
CERTIFICATION		This report is substantially accurate and covers the period from _____ to _____				
		Name of company	Address (Number and street, city, State)			ZIP code
		Signature of authorized person	Title			Date

INSTRUCTIONS FOR COMPLETING THE 1972 CENSUS OF MANUFACTURES FORMS

GENERAL INSTRUCTIONS

A separate Census report is required for each business location. Therefore, based on Census records, a report form is provided for each location which your company operated in 1972.

For purposes of the Census, a manufacturing establishment is defined as a single physical location where manufacturing operations are performed (e.g., a factory, mill, or plant). Thus a separate report is required for different physical locations even though the establishments may be engaged in the same line of manufacturing.

Please note that establishments engaged in the following activities are also considered to be manufacturing for the purposes of this Census: Poultry dressing; milk pasteurizing and bottling; seafood, fresh packaged or frozen; apparel jobbing and contracting, logging camps and logging; sawmills; printing; publishing—book, magazine, periodical, etc.; manufacturing and delivering ready-mixed concrete; machine shops, including those operating on a job order basis; job casting, stamping, machining; plating, galvanizing, polishing materials owned by others, etc.; ship and boat repairing.

In completing this report, a limited amount of prorating or estimating is acceptable if book records are not readily available. Include all the activities conducted within the establishment: e.g., manufacturing, fabricating, processing,

and assembling; maintenance of plant and equipment; receiving, shipping, warehousing, storage; research; recordkeeping; health, safety, cafeteria, and other services.

Each report should cover the calendar year 1972. However, a report is required even if the establishment operated only part of the year. If your book records are not on a calendar year basis, carefully prepared estimates will be acceptable. If reporting on a calendar year basis will require considerable additional costs, and your fiscal year covers at least 10 months of the calendar year 1972 (i.e., ends between October 31, 1972 and February 28, 1973) you may report on a fiscal year basis. However, all employment, payroll, and man-hour figures should relate to the calendar year rather than the fiscal year. (Calendar year payroll records should be available from your tax records.)

In the certification, enter the exact dates of the period covered by the report. If the ownership changed during the year, complete the report only for that part of 1972 in which your company owned and operated the establishment. Report in item 13 the appropriate information on changes in ownership or operations.

If additional report forms are needed, write to the Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47130. Be sure to describe the type of activity of the establishments for which the additional report forms are requested.

INSTRUCTIONS FOR ITEMS 1 THROUGH 14

- **Item 1A and 1B—Physical Location and Employer Identification Number**—Accurate and precise information on the physical location of each establishment is needed in order to prepare the tabulations of manufacturing activity in each State, county, and city. Each establishment has tentatively been coded geographically based on the street address in the mailing label, on the assumption that the physical location and mailing address are the same. Please be certain to complete item 1A, part a, if this is not so. Item 1A, part b, and part c, must be completed even if the physical location and the mailing address are identical. Although the system devised by the Census Bureau codes adequately to State and county in all instances, in many localities it cannot clearly distinguish an address that is in the city from one that is out of the city.

Be certain to enter in item 1B, the current Employer Identification Number if it is different from the one printed in the address label. This information is needed so that the Census Bureau can avoid sending duplicate report forms for the same location. Our file of new business formations is based on the new employer identification numbers issued each year. However, we exclude mailing report forms to new employer identification numbers if we identify them as belonging to existing respondents.

(Definitions of employees and payrolls used to calculate withholding taxes generally may be followed in completing items 2 and 3A, Employment and Payrolls.)

- **Item 2—Number of Employees**—Report employees at the establishment who worked or received pay for part of the pay period including the 12th of specified months (March, May, August, and November). Include all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; exclude members of Armed Forces and pensioners carried on your active rolls. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor, or partners.
- **Items 2a–2d—Number of Production Workers**—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., powerplant), recordkeeping, and other closely associated services. Exclude proprietors and partners.
- **Item 2g—All Other Employees**—Nonproduction personnel, including those engaged in the following activities: supervision above working foreman level, sales (including driver salesmen), sales delivery (truck drivers and helpers), advertising, credit, collection, installation and servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional and technical. Exclude proprietors and partners.

- **Item 3A—Payrolls**—Report the gross earnings paid in the calendar year to employees at the establishment prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and saving bonds.

Include in gross earnings commissions, dismissal pay, paid bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind.

Include salaries of officers of this establishment, if a corporation; if an unincorporated concern, exclude payments to proprietors or partners.

Exclude payments to agricultural employees, fishermen, members of the Armed Forces, and pensioners carried on your active payroll.

- **Item 4—Plant Man-Hours of Production Workers by Quarter**—Include all man-hours worked or paid for, except hours paid for vacations, holidays, or sick leave. If an employee elects to work during the vacation period, report only actual hours worked by such employee. Overtime hours should be reported as actual hours worked, not straight-time equivalent hours.

- **Item 5—Cost of Materials**—Report total cost of the materials actually consumed or put in production during the year.

If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differs significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.

Cost is delivered cost—i.e., the amount paid or payable after discounts and including freight and other direct charges incurred by the establishment in acquiring the materials.

Include all materials received for consumption; i.e., purchases from other companies, transfers from other establishments of your own company, withdrawals from inventories.

If the establishment produces items subsequently consumed in further production, report cost of original materials consumed only.

- **Item 5a—Cost of Materials, Parts, Components, Containers, etc., Consumed**—The delivered cost figures reported in item 5a should cover all raw materials, containers, scrap, and supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance. Item 5a should be consistent with the data in item 17.

Include also cost of materials owned by you but consumed by other companies to make products for your establishment under contract. (The value of these products should be reported in item 18). Amounts paid to other companies for such contract work should be reported on Line 5e and should include freight in and out.

Include only physical goods used or put into production.

Exclude services used or overhead charges, such as advertising, telephone, telegram and cable, insurance, development and research, services of engineering, management, marketing and other professional consultants, etc., unless charges for such services are included in the prices paid for materials.

Exclude also overhead items such as depreciation charges against plant and equipment; rent and rental allowances; interest payments, royalties, and patent fees.

Exclude materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant, or new machinery and equipment, and which are chargeable to fixed assets accounts. Exclude products purchased and resold without further manufacture or processing or assembly; their costs should be included in item 5b.

- **Item 5b—Cost of Products Bought and Resold**—Report the cost of all products bought and resold in the same condition as when purchased and not made part of another product manufactured by this establishment. (Total sales value of all products resold is to be reported in item 18 on the line for resales.)

- **Item 5c—Cost of Fuels Consumed**—Report the total amount actually paid or payable during the year for all fuels consumed for heat, power, transportation, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a by-product of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels including purchased steam.

- **Item 5d—Cost of Purchased Electricity**—Report the total amount actually paid or payable for electric energy purchased during the year from other companies, or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

- **Item 5e—Cost of Contract Work Done for You by Others on Your Materials**—If any contract work was done by others on materials furnished by your establishment, report the total payments made during the year for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in item 5a.

- **Item 6—Inventories of This Establishment at Beginning and End of Year**—Inventories should be reported at approximate current costs, if feasible; otherwise at book values. It is important that inventories should be reported on a comparable basis at the beginning and end of year.

- **Item 7—Capital Expenditures During Year (Exclude expenditures for land)**—Include all cost actually incurred during 1972 chargeable to the fixed assets accounts and of the type for which depreciation or amortization accounts are ordinarily maintained.

- **Item 7a—New Structures and New Additions to Plant (Exclude expenditures for land)**—Report total expenditures during the year for new construction (whether constructed on contract or by your own forces), major alterations, capitalized repairs, and improvement of buildings (including all new elevators, cranes, heating and ventilating equipment essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities).

- **Item 7b—New Machinery and New Equipment**—Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include replacements as well as additions to capacity. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks, and other similar equipment. Report value of improvement and capitalized repairs to machinery and equipment, whether repairs and improvements were purchased or made by employees of your company.

- **Item 7c—Used Plant and Used Equipment Acquired From Others**—Report total expenditures at this establishment for old or existing plants and for second-hand equipment acquired from others (including the U.S. Government). Include at approximate market value machinery or equipment transferred from other plants of your company.

- **Items 13 and 14—Change in Ownership or Company Affiliation and Organization**—Please complete these items fully if pertinent. Accurate completion of these items will avoid unnecessary correspondence, as well as reduce the possibility of your receiving more than one report form for the manufacturing activity at this location.

APPENDIX C—Continued

QUALITIES FOR FAILURE TO REPORT **DUE DATE: FEBRUARY 15, 1973**

Form Approved: O.M.B. No. 41-571102

FORM MA-100 U.S. DEPARTMENT OF COMMERCE
SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION
BUREAU OF THE CENSUS

1972 ANNUAL SURVEY OF MANUFACTURES

(For 1972 this is the first sheet of the 1972 Census of Manufactures form)

100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
-----	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

RETURN THIS COPY TO: Bureau of the Census
Jeffersonville, Indiana 47130

ITEM 1 a. Is this establishment still located in the State, county, and place shown below? (If blank or incomplete, please complete (1) through (4).)
☐ YES - Skip to part b ☐ NO - Correct or complete lines (1) through (4)

(1) Number and street _____
(2) City, village, or other place _____ State _____ ZIP code _____
(3) County _____ (4) If you corrected lines 1, 2, or 3, give year moved to new location. 19____

b. Is this establishment physically located WITHIN THE LEGAL BOUNDARIES of the city, village, or other place?
☐ YES ☐ NO

c. Is the Employer Identification (EI) Number printed in the address box the SAME as that used for this establishment on your latest Employer's Quarterly Federal Tax Return, Treasury Form 941?
☐ YES ☐ NO - Enter currently assigned EI No. here _____

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Be sure to read Instruction Manual before completing report. Report items 3-11 in THOUSANDS (Example: If total payroll is \$215,166, enter \$215).

Complete each item, enter "0" when appropriate		Key	1972	1971	Complete each item, enter "0" when appropriate		Key	1972	Key	1971
ITEM 2	Number of production workers during pay period including the 12th of month	a. March b. May c. August d. November	301 302 303 304		ITEM 6	a. Finished products b. Work-in-process c. Materials, supplies, fuels, etc. d. TOTAL (Item 6)	305 306 307 308			
e. Sum of lines a-d			309							
f. Average number (Divide line e by 4, omit fractions)			308							
g. All other employees (pay period including March 12th)			307							
h. TOTAL f and g (Item 2)			309							
ITEM 3A	a. Production workers' wages		311							
Payrolls (\$000)	b. All other salaries and wages		312							
c. TOTAL (Item 3A)			313							
ITEM 3B	a. Legally required expenditures, incl. Social Security contributions		361							
Suppl. labor costs not incl. in payroll (\$000)	b. Payments for voluntary programs		362							
c. TOTAL (Item 3B)			363							
ITEM 4	a. January through March b. April through June c. July through September d. October through December e. TOTAL (Item 4)		314 315 316 317 318							
ITEM 5	a. Cost of materials, parts, components, containers, etc., consumed b. Cost of products bought and resold as such c. Cost of fuels consumed d. Cost of purchased electricity e. Cost of contract work done for you by others on your materials f. TOTAL (Item 5)		321 322 323 324 325 326							
ITEM 9	Quantity and value of products shipped and other receipts									

	Product class code (See manual)	Unit of quantity	1972		1971	
			Quantity (d)	Value (\$000) (e)	Quantity (f)	Value (\$000) (g)
a.	561		562	563		
b.	561		562	563		
c.	561		562	563		
d.	561		562	563		
e.	561		562	563		
f.	561		562	563		
g.	561		562	563		
h.	561		562	563		
i.	561		562	563		
j.	561		562	563		
k.	561		562	563		
l. Enter TOTAL from page 2, Item 9 - Continued, line e						
m. Receipts for work or services you performed for others on their materials - Describe	93000	8		563		
n. Miscellaneous receipts (repair work, installation, sales of scrap, etc.) - Describe	99980	5		563		
o. Sales of products bought and resold without further manufacture, processing, or assembly (Report cost in item 5b)	99989	6		563		
p. TOTAL (Item 9)	77000	8		563		

APPENDIX C-Continued

Page 2

ITEM 9 Continued	Additional products of this establishment (Describe) (a)	Product class code (See manual) (b)	Unit of quantity (c)	1972	
Quantity and value of products shipped and other receipts (\$000)				Quantity (d)	Value (\$000) (e)
a.		561		562	563
b.		561		562	563
c.		561		562	563
d.		561		562	563
e.	TOTAL (Transfer to page 1, item 9, line 1)				

ITEM 12	Not applicable this year				
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ITEM 13 Changes in operator or operations during 1972	112 MARK ONE BOX 1 <input type="checkbox"/> No change in operator or operations 2 <input type="checkbox"/> Reorganized - Describe in "Remarks," e.g., partnership change or change in corporate status. 3 <input type="checkbox"/> Started new business - Date _____ 4 <input type="checkbox"/> Plant dismantled, abandoned, or destroyed on - Date _____ 5 <input type="checkbox"/> Plant idle or inactive but still owned - Date _____ 6 <input type="checkbox"/> This establishment was purchased or leased from another company - Complete the following information -> Name of former operator or owner _____ Address (Number, street, city, State, ZIP code) _____ Date _____ 7 <input type="checkbox"/> This establishment was sold or leased to another company - Complete the following information -> Name of new operator or owner _____ Address (Number, street, city, State, ZIP code) _____ Date _____				
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ITEM 14	Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"? <input type="checkbox"/> YES - Complete item 14A, a through d <input type="checkbox"/> NO - Skip to item 15 below				
----------------	--	--	--	--	--

ITEM 14A Company affiliation and organization	113 a. Is this company owned or controlled by another company? <input type="checkbox"/> 1 YES - Complete the following information <input type="checkbox"/> 2 NO Name, address, and Employer Identification Number of owning or controlling company _____ Activity of owning or controlling company (Describe, e.g., manufacturing, retail, wholesale, etc., and chief products sold) _____ Employer Identification Number -> _____ b. Does this company own or control any other companies? <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO c. Does this company operate more than one establishment? <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO d. Did this company have any manufacturing plants under construction but not in operation at the end of the year? <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO				
--	---	--	--	--	--

ITEM 14B Other companies owned or establishments operated	Name, address, and Employer Identification Number _____ _____ _____ Employer Identification Number -> _____	Activity (Describe, e.g., manufacturing, retail, wholesale, etc., and chief products sold)	1972 payroll and sales (\$000)	Are payroll and sales included on page 1 of this report?	
Complete only if item 14A b or c is marked "YES."			Payroll \$	<input type="checkbox"/>	<input type="checkbox"/>
			Sales \$	<input type="checkbox"/>	<input type="checkbox"/>
			Payroll \$	<input type="checkbox"/>	<input type="checkbox"/>
			Sales \$	<input type="checkbox"/>	<input type="checkbox"/>

ITEM 15 CHECKS to assure a complete and accurate report	The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report: (1) Review the report carefully to see that no items are omitted for the year being covered. (2) Calculate and enter figures for the four "reasonableness" checks below, and review the results. (3) Correct your report for any errors you find and explain unusual figures in "Remarks." For most manufacturing establishments, the figures computed usually fall within the ranges indicated.				
"Reasonableness" checks		Calculation required for each check	Figures for 1972	Usual range	
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) - item 4e (Total man-hours)		\$	\$1 - \$10	
b. Hours worked per week per production worker	Item 4e (Total man-hours) x 20 - item 2f (Average number of production workers)		Hrs.	20 - 60	
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) - item 9p (Total value of shipments)		¢	05¢ - 95¢	
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) - item 9p (Total value of shipments)		¢	05¢ - 95¢	
a. Is the total for Value of Shipments (item 9p) greater than the sum for Payroll (item 3Ac) plus total Cost of Materials, etc. (item 5D)? <input type="checkbox"/> YES <input type="checkbox"/> NO - Explain in "Remarks"					
f. Is the gross value of depreciable assets (item 10c) minus total capital expenditures (item 7d), within 5% of gross depreciable assets at the beginning of the survey year? <input type="checkbox"/> YES <input type="checkbox"/> NO - Explain in "Remarks"					
Remarks					

Please continue on page 3

APPENDIX C-Continued

DUE DATE: THIRTY DAYS AFTER RECEIPT OF FORM

O.M.B. No. 41-R2349 Approval Expires November 30, 1978

<p>Form MA-171 11-29-74</p> <p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</p> <p style="text-align: center;">DEPARTMENT OF DEFENSE-OWNED AND-OPERATED ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING AND ASSEMBLY, AND/OR RESEARCH AND DEVELOPMENT (Includes shipyards)</p> <p style="text-align: center;">(Supplement to the Annual Survey of Manufactures, Census Form MA-100)</p>		<p>NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p style="text-align: center;">(Please correct if any error in name and address, including ZIP code.)</p>																																															
<p>INSTRUCTIONS - This report is to be prepared by those Department of Defense establishments whose primary activities are manufacture and assembly and/or research and development. All shipyards are included.</p> <p>The information requested is based upon reports now regularly prepared by most such establishments.</p>		<p>PLEASE RETURN THIS COPY</p>																																															
<p>ITEM 1 - NAME AND PHYSICAL LOCATION OF ESTABLISHMENT ON DECEMBER 31, 1974</p>																																																	
<p>a. Name of establishment</p> <p>Your answers to parts b, c, d, e, and f of this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.</p>		<p>d. Is this establishment physically located within the legal boundaries of the place named in "c"?</p> <p style="text-align: center;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p>																																															
<p>b. Street and number of establishment location*</p> <p>*If establishment location cannot be described by street and number, give name and number, if any, of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlottesville.</p>		<p>e. County in which located</p>																																															
<p>c. Type and name of place in which located (Mark first applicable type and enter name of place.)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Type</th> <th style="width:80%;">Name of place</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> City</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Village or borough</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Town</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Township</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other (Specify)</td> <td></td> </tr> </tbody> </table>		Type	Name of place	<input type="checkbox"/> City		<input type="checkbox"/> Village or borough		<input type="checkbox"/> Town		<input type="checkbox"/> Township		<input type="checkbox"/> Other (Specify)		<p>f. State ZIP code</p>																																			
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<input type="checkbox"/> Township																																																	
<input type="checkbox"/> Other (Specify)																																																	
<p>g. Telephone number of establishment (Include area code)</p>		<p>ITEM 2 - NATURE OF ACTIVITY Describe briefly the kind of activity of this establishment. If a manufacturing plant, list the three most important products.</p>																																															
<p>ITEM 3 EMPLOYMENT AND PAYROLLS IN CALENDAR YEAR 1974</p>																																																	
<p>(Civilian employees only)</p>	<p>Class of employee</p>	<p>Item code</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">Number of civilian employees in 1974</th> <th rowspan="3" style="text-align: center;">Sum of columns A, B, C, and D (E)</th> <th rowspan="3" style="text-align: center;">Average number of employees (Col. E divided by 4) (F)</th> <th rowspan="3" style="text-align: center;">Total wages and salaries of civilian employees (Thousands of dollars) (G)</th> </tr> <tr> <th colspan="6" style="text-align: center;">At end of quarter (As reported on Civil Service Form SF-113-A**)</th> </tr> <tr> <th style="text-align: center;">March (A)</th> <th style="text-align: center;">June (B)</th> <th style="text-align: center;">September (C)</th> <th style="text-align: center;">December (D)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">a. Wage Board employees</td> <td style="text-align: center;">41</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">\$</td> </tr> <tr> <td style="text-align: center;">b. All others</td> <td style="text-align: center;">42</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">\$</td> </tr> <tr> <td style="text-align: center;">c. TOTAL CIVILIAN EMPLOYEES (Sum of lines a and b)</td> <td style="text-align: center;">49</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">\$</td> </tr> </tbody> </table>	Number of civilian employees in 1974						Sum of columns A, B, C, and D (E)	Average number of employees (Col. E divided by 4) (F)	Total wages and salaries of civilian employees (Thousands of dollars) (G)	At end of quarter (As reported on Civil Service Form SF-113-A**)						March (A)	June (B)	September (C)	December (D)	a. Wage Board employees	41							\$	b. All others	42							\$	c. TOTAL CIVILIAN EMPLOYEES (Sum of lines a and b)	49							\$
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c. TOTAL CIVILIAN EMPLOYEES (Sum of lines a and b)	49							\$																																									
<p>**The number of Wage Board employees (line a) should be the same as reported on line 5 of SF-113-A. The total (line c) should be the same as reported on line 1 of SF-113-A.</p>																																																	
<p>ITEM 4 MAN-DAYS OF WAGE BOARD EMPLOYEES BY CALENDAR QUARTER 1974</p>																																																	
<p>Enter the total number of man-days of Wage Board employees for each calendar quarter of 1974. Do not include days paid for vacations, holidays, or sick leave.</p>	<p>Item code</p>	<p>1974 Quarterly period</p>	<p>Man-days (Thousands) (A)</p>	<p>Estimated number of man-hours*** (Thousands) (B)</p>																																													
	51	a. January through March																																															
	52	b. April through June																																															
	53	c. July through September																																															
	54	d. October through December																																															
	59	e. TOTAL, 1974 (Sum of lines a, b, c, and d)																																															
<p>***Obtain figure for column (B) by multiplying column (A) by average number of hours per day per Wage Board employee in this establishment.</p>																																																	

Please continue on page 2

APPENDIX C—Continued

ITEM 5 BILLINGS BY THIS ESTABLISH- MENT DURING CALENDAR YEAR 1974	Enter below the specified classes of billings of this establishment for calendar year 1974		
	Billings for products and services (including progress billings)	Item code	Value (Thousands of dollars)
	Manufacture and assembly	61	\$
	Construction and conversion	62	
	Overhaul, repair, and renovation	63	
	Alteration and modification	64	
	Research and development	65	
	Other billings	66	
	Total billings for products and services	67	
	Increase or decrease in unbilled costs of work in progress	68	
TOTAL EARNED REVENUE →		69	
ITEM 6 COSTS DURING CALENDAR YEAR 1974	Types of costs incurred	Item code	Cost (Thousands of dollars)
	Materials, supplies, and parts used	71	\$
	Wages and salaries (same as item 3, code 49, col. G)	72	
	Contractual services and other costs	73	
	TOTAL COSTS INCURRED →	79	
VALUE ADDED (Census use only)		81	
ITEM 7 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT (Please complete this item after you have answered all items on this report.)	The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report: a. Review this report carefully to see that no items are omitted. b. Calculate and enter the four "reasonableness" checks (described below), then review the resulting figures. c. Correct your report for any errors you find; explain unusual figures in "Remarks" section.		
	"Reasonableness" checks	Calculation required for each check	Resulting figures for 1974
	(1) Average hourly wages per Wage Board employee	Item code 41, column G (Wages paid Wage Board employees) ÷ item code 59, column B (Total estimated man-hours)	\$
	(2) Man-days per year per Wage Board employee	Item code 59, column A (Wage Board man-days in thousands) X 1,000 ÷ item code 41, column F (Average number of Wage Board employees)	Man-days
	(3) Wages and salaries per dollar of earned revenue	Item code 72, (Wages and salaries of civilian employees) ÷ item code 69 (Total earned revenue)	\$
	(4) Is the total earned revenue (item code 69, total) greater than total costs incurred (item code 79, total)? <input type="checkbox"/> Yes <input type="checkbox"/> No (If "No," please explain in "Remarks" section.)		
ITEM 8 REMARKS PERTAIN- ING TO THIS REPORT			
PERIOD OF REPORT	This report covers the period from _____ to _____		
ITEM 9	Name of person to be contacted regarding this report	Address (Street and number, city, State, ZIP code)	Telephone (Area code, number, extension)
ITEM 10	CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.		
	Name of establishment	Address (Street and number, city, State, ZIP code)	
	Signature of authorized official	Title	Date

FORM MA-171 (11-29-74)

APPENDIX C—Continued

DUE DATE: 30 DAYS AFTER RECEIPT OF FORM

O.M.B. No. 41—572061; Approval Expires December 31, 1974

<p>FORM MC-D4 (7-71-72)</p> <p>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</p> <p>1972 CENSUS OF MANUFACTURES</p> <p>REPORT FROM PENAL INSTITUTIONS</p> <p>Please complete this form and RETURN TO: BUREAU OF THE CENSUS Industry Division Washington, D.C. 20233</p>	<p>(Please correct any error in name or address including ZIP code)</p> <p>(PLEASE RETURN THIS COPY)</p>
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PRODUCTS MADE IN THIS ESTABLISHMENT DURING 1972

INSTRUCTIONS FOR TOTAL PRODUCTION

Column (D) - Quantity - Report where appropriate the quantity of all products you made in this institution during 1972. Include products produced for use within the institution and products transferred to other branches of your government.

Column (E) - Value - Report at approximate market value all products, either used within the institution or transferred to other governmental units.

Line No.	Product (A)	Unit of measure (B)	Total production		Census product code (J)
			Quantity (D)	Value (Thousands of dollars) (E)	
1	Meat and meat products			\$	201
2	Canned foods				203
3	Coffee and tea				209
4	Tobacco, chewing and smoking				210
5	Blankets				221
6	Woven fabrics	Thousand pounds			223
7	Cordage and twine	Thousand linear yards			229
8	Apparel and clothing, including uniforms, coats, etc.				231
9	Sheets and pillowcases				232
10	Canvas specialties				239
11	Mattresses				251
12	Wooden furniture				253
13	Printing and binding				275
14	Soaps				284
15	Paints				285
16	Shoes	Pairs			314
17	Brick	Clay	Thousand brick		325
18		Concrete			326
19	Concrete blocks	Thousand block 8"x8"x16" equivalent			327
20	Motor vehicle license plates (Count a set of front and rear plates as two plates)	Number			346
21	Highway and road signs				348
22	Miscellaneous metal products				349
23	Brooms and brushes				398
24	Prepared animal feeds				204
25	All other products (Specify kind and unit of measure)				
26					
27					
28					
29					
30	TOTAL (Sum of lines 1-29)			\$	
Name of person to contact regarding this report		Address (Number and street, city, State)		ZIP code	Telephone
					Area code Number Extension
CERTIFICATION - This report is substantially accurate and covers the period from _____ to _____.					
Signature of authorized person		Title		Date	

Please use reverse side for remarks

USCOMM-DC

APPENDIX C—Continued

PENALTY FOR FAILURE TO REPORT		DUE DATE: FEBRUARY 15, 1973		Form Approved: O.M.B. No. 41-571116	
Form CB-511 U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS 1972 CENSUS OF BUSINESS MANUFACTURERS' SALES BRANCHES AND SALES OFFICES ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES		NOTICE —Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process. In correspondence pertaining to this report, please refer to this Census File Number: CB-511 (5110)			
Please complete this form and RETURN TO: BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130		Employer Identification Number: _____			
Important - Please read ■ Please answer the questions on this form and return it as soon as you can, but not later than February 15, 1973. If filing by the due date causes an undue burden, a request for extension should be sent to the address shown above. ■ This report should cover the calendar year 1972. If book figures are not available, carefully prepared estimates are acceptable. ■ A separate report is required for each sales branch and sales office operated during 1972. Each sales office without stock should be reported separately as well as each sales branch carrying stocks of merchandise from which deliveries are made to customers. Sales branches and sales offices located at plants or administrative offices should be reported on this form where separate records are available, or if substantially accurate reports can be prepared. Employment, payroll, inventories, and operating expenses reported here should not be included in manufacturer's plant report (MC series). Sales, however, will to some extent duplicate shipments on your plant reports. ■ This report should cover only the establishment identified in the address box.		KEEP THIS COPY FOR YOUR FILES PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS			
Item 1 - PHYSICAL LOCATION OF BUSINESS ESTABLISHMENT a. The purpose of this inquiry is to determine the place (city, county, etc.) where your business is actually located (which may differ from the mailing address) so that data can be tabulated in the correct geographic area. b. Is this business establishment PHYSICALLY located at the address shown in the address box of this form? <input type="checkbox"/> YES - Answer b and c <input type="checkbox"/> NO - Enter PHYSICAL location Also answer b and c c. In what county is this business establishment PHYSICALLY located? <input type="checkbox"/> YES <input type="checkbox"/> NO		PHYSICAL LOCATION (Enter if different from address shown above) ■ If location cannot be described by street name and number, give as much information as possible such as name of shopping center, street intersection, highway number or distance from nearest town, etc. Street name and number: _____ City (City or village, etc.): _____ State: _____ ZIP code: _____			
Item 2 - EMPLOYER IDENTIFICATION NUMBER a. Is the Employer Identification (E.I.) Number printed in the upper right of the address box the SAME as that used for this establishment on your latest 1972 Employer's Quarterly Federal Tax Return, Treasury Form 941? <input type="checkbox"/> YES <input type="checkbox"/> NO b. Did this establishment also use any other Employer Identification (E.I.) Number during 1972? <input type="checkbox"/> YES <input type="checkbox"/> NO		Enter current E.I. number (9 digits): _____ Enter E.I. number or numbers (9 digits): _____			
Item 3 - PERIOD OPERATED IN 1972 a. Was this establishment in business at the end of 1972? ■ If establishment was inactive during December 1972 due to seasonal or part-time operations, answer "Yes" unless it was not owned by you at the end of the year. <input type="checkbox"/> YES <input type="checkbox"/> NO b. How many months during 1972 did you own this establishment? 030 _____ Number of months		Dollar figures should be reported as illustrated. Please be careful to enter your figures in the correct columns. See example below: EXAMPLE: If figure is \$1,125,628.28 PREFERRED method: 1 125 628 28 Acceptable method: 1 125 628 28			
Item 4 - DOLLAR VOLUME OF BUSINESS Line a - Total net sales after deducting returns, allowances, and discounts, but include excise taxes and sales taxes. Include all company sales credited to the sales branch or sales office even though billings may be made from a central or district office and shipments made from a plant or central warehouse. Also include, at wholesale prices, sales or transfers to any retail stores you may own. Include any receipts from services rendered to customers, but do not include any receipts derived from sources other than customers. Line b - Approximate percentage of sales (Item 4a), if any, accounted for by goods produced by your company, your parent company, or companies corporately affiliated with your company. Line c - Total receipts, if any, from work done by your employees at construction site including the value of any goods you put in place that became a permanent part of the structure or building. Amounts reported here should also be included in items 4a and 17.		a. TOTAL SALES and other operating receipts in 1972: _____ Mil. Thou. Dol. b. What percent of sales represents products produced by your company? _____ % c. Did this establishment do any construction work for others in 1972? <input type="checkbox"/> YES <input type="checkbox"/> NO If "YES," report the value of construction receipts during 1972: _____ Mil. Thou. Dol.			
Item 5 - PAYROLL AND EMPLOYMENT Line a and b - Report the gross earnings paid in calendar year to employees prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings all wages, salaries, commissions, dismissal pay, paid bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind. If a corporation, include salaries of officers; if an unincorporated concern, exclude payments to proprietors or partners. Line c - Be sure to include all persons on paid sick leave, paid holidays, and paid vacation during the pay period indicated, as well as those actually working. If a corporation, include officers; if an unincorporated concern, exclude proprietor or partners.		a. Total ANNUAL payroll in 1972 before deductions: _____ Mil. Thou. Dol. b. Payroll for the FIRST QUARTER of 1972: _____ c. Number of paid employees for the pay period including March 12, 1972: _____ Number			
Item 6 - Not applicable to this form		Item 7 - OPERATING EXPENSES AND INVENTORIES Line a - Include in addition to other operating expenses, the payroll of this establishment and the pro rata share of any general office expense. Do not include the cost of merchandise. Do not include income taxes and excise taxes. Unincorporated businesses should not include withdrawals by owners or part owners. Line b - Report inventories of goods for sale at cost value rather than sale price. Include goods owned by you and consigned to others, but not goods of others in your possession. Report inventories as of the date specified, or nearest inventory date.			
Item 8 - SALES BY CUSTOMER CLASSES Report the approximate percentage of your 1972 sales to each of the classes of customers. If book figures are not available, entries for these lines should represent your best approximations. Percentages should add to 100.		a. Total 1972 operating expenses, including payroll: _____ Mil. Thou. Dol. b. Did you have merchandise inventories during 1972? <input type="checkbox"/> YES <input type="checkbox"/> NO If "YES," what were these merchandise inventories, at cost? (1) December 31, 1972: _____ (2) December 31, 1971: _____			
Line a - Sales to manufacturers, farm operators, and other business concerns or institutions that normally buy for business use rather than for resale of the goods in the form purchased. Line b - Sales to the Federal government (including the military, post exchanges, GSA, GPO, and similar Federal agencies) and to State and local governments. Include here only sales made by this establishment DIRECT to governmental agencies. Sales to companies which in turn sell to governmental agencies should be included under other parts of this inquiry according to the classification of the purchaser. Line c - Sales to construction contractors and builders of all types (general contractors; highway, street, and other heavy construction contractors; and special trade contractors). Line d - Sales to transportation companies, communications and other public utilities. Include sales to railroads, interurban systems, and street railway systems; highway, water, and air transportation companies; telephone and telegraph communications, radio and television broadcasting and other communication services; electric light and power - including combination electric and gas utilities. Line e - Sales to repair shops of all types. Line f - Sales to retailers of all types (retail chain organizations, independent stores, department stores, etc.). Entry should represent percentage of your sales to purchasers who normally buy for resale to home consumers or to individual users. Line g - Sales to organizations that normally purchase for resale at wholesale (including sales to purchasers who buy for resale to industrial, institutional, and similar users). Line h - Sales to household consumers and individual users (including sales to your own employees). Line i - Include sales made direct to buyers in foreign countries, or through their agents in this country. Include transfers, if any, to your own foreign branches. United States possessions should not be considered as foreign countries.		Approximate percent of total sales (Item 4a) (Report in whole percents) a. To institutional, industrial, commercial, professional, and farm users: _____ b. To governmental bodies (Federal, State, and local governments): _____ c. To contractors and builders: _____ d. To public utilities: _____ e. To repair shops: _____ f. To retailers: _____ g. To wholesale organizations: _____ h. To household consumers and individual users: _____ i. Export sales: _____ j. TOTAL (Lines a through i should add to 100): _____ 100 %			

Please continue on page 2

APPENDIX C —Continued

Page 2

Item 9 — EMPLOYMENT BY PRINCIPAL ACTIVITY				Approximate number of employees	
Distribute here the employees reported in item 5 according to their principal activity during the pay period including March 12, 1972. Each employee should be counted only once, according to his or her principal activity. Line a — Selling employees — All employees primarily engaged in selling merchandise or services (traveling salesmen, house or telephone salesmen, etc.) Line b — Office, clerical, warehouse employees — Employees primarily engaged in office, clerical, and warehouse work for this establishment (see instruction for central administration). Line c — Central administration — Employees primarily engaged in performing various management, accounting, clerical, warehousing, etc., services for other establishments of your company.				a. Selling employees	121
				b. Office, clerical, and warehouse employees servicing this establishment	122
				c. Central administration, storage, etc.	123
				d. Manufacturing (processing merchandise)	124
				e. Other (Describe)	125
				f. TOTAL (Should equal item 5c)	126
Item 10 — Not applicable to this form					
Item 11 — WAREHOUSE, STOCKROOM, AND OTHER INVENTORY STORAGE SPACE, DECEMBER 31, 1972				140	
Line a — Please indicate if this item is applicable to this establishment by marking either "YES" or "NO." Line b — Exclude floor space occupied by interior walls, permanent aisles, elevator shafts, stairways, offices, receiving and shipping platforms, etc. Line c — Net piling space is space for storing commodities — inside space measured from wall to wall and from floor to ceiling, less space for ventilation (outside of the piling), coils, aisles, posts, sprinklers, etc.				a. Did you have warehouse, stockroom, or other inventory storage space on December 31, 1972?	1 <input type="checkbox"/> YES — Go to b 2 <input type="checkbox"/> NO — SKIP to item 17
				b. Occupiable floor space (under-roof) — occupied and unoccupied — of this establishment	Square feet Mil. : Thou. : 000 141
				c. Refrigerated (net piling) space 50 degrees Fahrenheit or below in this establishment	Cubic feet Mil. : Thou. : 000 142
Items 12 through 16 — Not applicable to this form					
Item 17 — ANALYSIS OF SALES BY PRODUCTS OR COMMODITY LINES				Report value of products bought and sold as well as value of products produced by your company and sold by this establishment. If figures based on records are not available, give best possible approximations.	
Enter below the total dollar sales of each product sold by this branch or office. Products are listed (at a less detailed level) in the same sequence as they appear on the reporting forms for your manufacturing plants.					
Description	Census use only	Estimated sales during 1972	Code	Description	Census use only
		Mil. : Thou. : Dol.			
Electrical industrial equipment	200			Radio, TV, commercial equipment	200
1. Equipment for testing electrical, radio, communications circuits, motors	7010		36112	27. Speaker systems, microphones, home, commercial sound equipment	7380
2. Other electrical measuring instruments	7020		36111, 36113	28. Phonograph records	7410
3. Power, distribution transformers	7030		36122	29. Telephone switching, switchboard equipment	7420
4. Other transformers	7040		36121, 36123	30. Other telephone, telegraph (wire), apparatus, equipment, components	7430
5. Switchgear, ducts, relays	7050		36131, 36133, 36134, 36136, 36137	31. Radio, TV, communications equipment	7440
6. Circuit breakers	7060		36132, 36135	Other electric equipment	200
7. Fractional horsepower motors	7070		36211	32. Electron tubes, receiving types	7450
8. Integral horsepower motors, generators	7080		36212	33. Cathode ray picture tubes	7460
9. Motor-generator sets, other rotating equipment	7110		36215	34. Transmitting industrial, special purpose electron tubes (except X-ray)	7470
10. Other motors, generators	7120		36213, 36214	35. Transistors, rectifiers, semiconductor devices	7480
11. Parts, supplies for motors, generators	7130		36216	36. Electronic components, n.e.c.	7510
12. General industrial power circuit devices, controls	7140		36220	Other electric machinery, equipment	
13. Welding apparatus	7150		36230-36233	37. Storage batteries	7520
14. Carbon and graphite products	7160		36240	38. Primary batteries, dry and wet	7530
15. Electric industrial goods, n.e.c.	7170		36290-36293	39. X-ray therapeutic apparatus	7540
Electrical appliances	200			40. Engine electrical equipment	7550
16. Nonconsole radios (portable, table model, etc.) and record players	7290		XXX	41. Lamp bulb components, other electrical products	7560
17. Major appliances, television sets, console radios and record players				42. Appliance wire, cord, and flexible cord sets (except those in nonferrous wire drawing plants)	7570
a. Electric home kitchen equipment, parts	7301		XXX	43. Copper, copper-base alloy wire, bare (tinned for electrical transmissions)	7580
b. Electric home laundry equipment	7302		XXX	44. Communication wire, cable	7610
c. Television sets	7303		XXX	45. Magnet wire	7620
d. Console radios and record players	7304		XXX	46. Power wire, cable	7630
e. Other major appliances (including gas)	7305		XXX	47. Other drawn, insulated nonferrous wire	7640
f. Total major appliances, etc. (Sum of lines a through e)	7300		XXX	48. Miscellaneous lines of merchandise (Specify)	
18. Electric housewares, small appliances, parts and supplies	7210		XXX	a. _____	9761
19. Room air conditioners	6800		XXX	b. _____	9762
Lighting fixtures, current carrying devices	200			c. _____	9763
20. Electric lamps	7260		36410	d. Total miscellaneous merchandise (Sum of lines a through c)	9760
21. Residential type electric fixtures	7270		36421, 36427	49. Receipts from services and sources other than the sale of merchandise	9930
22. Commercial, institutional, industrial type electrical fixtures	7280		36422, 36423	50. TOTAL SALES IN 1972 (Sum of lines 1 through 49 should be the same as item 4a.)	9990
23. Vehicular lighting equipment, electrical	7310		36424		
24. Other electric and nonelectric lighting equipment	7320		36425, 36426		
25. Current carrying wiring devices	7330		36430		
26. Noncurrent carrying devices	7340		36440-36443		

FORM CB-512

Please continue on page 3

APPENDIX C—Continued

<small>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</small> 1972 CENSUS OF BUSINESS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES - Continued		Page 3 Please enter your Census File Number 2																																									
Item 18 - Not applicable to this form																																											
Item 19 - TRUCKS, TRUCK TRACTORS, AND TRUCK TRAILERS OPERATED, MID-DECEMBER 1972 Line a - Please indicate if this item is applicable to this establishment by marking either "YES" or "NO." Line b - Include all street and highway-type vehicles owned or leased (without drivers). Exclude vehicles held for sale and any vehicles leased by you to others.		<div style="text-align: right;">209</div> 1 <input type="checkbox"/> YES - Go to b 2 <input type="checkbox"/> NO - SKIP to Item 21 a. Did this establishment operate any trucks, truck tractors, or truck trailers mid-December 1972? <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">b. Number and type of vehicles operated mid-December 1972</th> <th style="text-align: center;">Total</th> <th style="text-align: center;">Owned</th> <th style="text-align: center;">Leased (without drivers)</th> </tr> </thead> <tbody> <tr> <td>Trucks, by body type</td> <td style="text-align: center;">210</td> <td style="text-align: center;">211</td> <td style="text-align: center;">212</td> </tr> <tr> <td>(1) Closed top vans</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(2) Open top vans, platform, stake, or other open top trucks</td> <td style="text-align: center;">213</td> <td style="text-align: center;">214</td> <td style="text-align: center;">215</td> </tr> <tr> <td>(3) Pick-up, standard panel, or other light delivery trucks</td> <td style="text-align: center;">216</td> <td style="text-align: center;">217</td> <td style="text-align: center;">218</td> </tr> <tr> <td>(4) Dump truck</td> <td style="text-align: center;">219</td> <td style="text-align: center;">220</td> <td style="text-align: center;">221</td> </tr> <tr> <td>(5) Other over-the-road trucks</td> <td style="text-align: center;">222</td> <td style="text-align: center;">223</td> <td style="text-align: center;">224</td> </tr> <tr> <td>Truck tractors and trailers</td> <td style="text-align: center;">225</td> <td style="text-align: center;">226</td> <td style="text-align: center;">227</td> </tr> <tr> <td>(6) Truck tractors</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(7) Semi-trailers and full trailers</td> <td style="text-align: center;">228</td> <td style="text-align: center;">229</td> <td style="text-align: center;">230</td> </tr> </tbody> </table>		b. Number and type of vehicles operated mid-December 1972	Total	Owned	Leased (without drivers)	Trucks, by body type	210	211	212	(1) Closed top vans				(2) Open top vans, platform, stake, or other open top trucks	213	214	215	(3) Pick-up, standard panel, or other light delivery trucks	216	217	218	(4) Dump truck	219	220	221	(5) Other over-the-road trucks	222	223	224	Truck tractors and trailers	225	226	227	(6) Truck tractors				(7) Semi-trailers and full trailers	228	229	230
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Remarks (This space may be used for any explanations that may be helpful in understanding your report.)																																											
Item 21 CERTIFICATION		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Name of person to contact regarding this report</td> <td colspan="2">Address (Number, street, city, State, ZIP code)</td> <td colspan="2">Telephone</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>Area code</td> <td>Number Ext.</td> </tr> <tr> <td colspan="6">This report is substantially accurate and covers the period from _____ to _____</td> </tr> <tr> <td colspan="2">Signature of authorized person</td> <td colspan="2">Title</td> <td colspan="2">Date</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> </table>		Name of person to contact regarding this report		Address (Number, street, city, State, ZIP code)		Telephone						Area code	Number Ext.	This report is substantially accurate and covers the period from _____ to _____						Signature of authorized person		Title		Date																	
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				Area code	Number Ext.																																						
This report is substantially accurate and covers the period from _____ to _____																																											
Signature of authorized person		Title		Date																																							

APPENDIX D. Authority for Census: Title 13, United States Code

(Codification of August 1954 amended by Acts of August 1957, September 1960, and June and October 1962, and of August 1964)

Collection and publication: Five-year periods (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses... in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

Geographic scope of censuses (191a)

Each of the censuses authorized by this chapter (other than censuses of population) shall include each State, the District of Columbia, Alaska, Hawaii, the Virgin Islands, Guam, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Censuses of population shall include all geographic areas referred to in the preceding sentence. Inclusion of other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

Wrongful disclosure of information (214)

Whoever, being an employee referred to in subchapter II of chapter 1 of this title, having taken and subscribed the oath of

office, publishes or communicates, without the written authority of the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, any information coming into his possession by reason of his employment under the provisions of this title, shall be fined not more than \$1,000 or imprisoned not more than two years, or both.

Failure to answer questions affecting companies, businesses, religious bodies, and other organizations: False answers (224)

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by certified mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such questions, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.

APPENDIX E. Standard Metropolitan Statistical Areas

(Titles and definitions of the two standard consolidated areas and the 263 standard metropolitan statistical areas in the United States established by the Office of Management and Budget as of April 27, 1973)

SMSA name	SMSA definition	Changes for 1972
CHICAGO, IL-NORTHWESTERN INDIANA STANDARD CONSOLIDATED AREA	CHICAGO, IL GARY-HAMMOND-EAST CHICAGO, IN	
NEW YORK, NY-NORTHEASTERN NEW JERSEY STANDARD CONSOLIDATED AREA	NEW YORK, NY NASSAU-SUFFOLK, NY NEWARK, NJ JERSEY CITY, NJ PATERSON-CLIFTON-PASSAIC, NJ MIDDLESEX CO., NJ SOMERSET CO., NJ	
ABILENE, TX	CALLAHAN CO., TX JONES CO., TX TAYLOR CO., TX	ADDED CALLAHAN COUNTY
AKRON, OH	PORTAGE CO., OH SUMMIT CO., OH	
ALBANY, GA	DOUGHERTY CO., GA LEE CO., GA	ADDED LEE COUNTY
ALBANY-SCHENECTADY-TROY, NY	ALBANY CO., NY MONTGOMERY CO., NY RENSSELAER CO., NY SARATOGA CO., NY SCHENECTADY CO., NY	ADDED MONTGOMERY COUNTY
ALBUQUERQUE, NM	BERNALILLO CO., NM SANDOVAL CO., NM	ADDED SANDOVAL COUNTY
ALEXANDRIA, LA	GRANT PARISH, LA RAPIDES PARISH, LA	NEW SMSA
ALLENTOWN-BETHLEHEM-EASTON, PA-NJ	WARREN CO., NJ CARBON CO., PA LEHIGH CO., PA NORTHAMPTON CO., PA	ADDED CARBON COUNTY, PA
ALTOONA, PA	BLAIR CO., PA	
AMARILLO, TX	POTTER CO., TX RANDALL CO., TX	
ANAHEIM-SANTA ANA-GARDEN GROVE, CA	ORANGE CO., CA	
ANCHORAGE, AK	ANCHORAGE DIVISION, AK	NEW SMSA
ANDERSON, IN	MADISON CO., IN	
ANN ARBOR, MI	WASHTENAW CO., MI	
APPLETON-OSHKOSH, WI	CALUMET CO., WI OUTAGAMIE CO., WI WINNEBAGO CO., WI	NEW SMSA
ASHEVILLE, NC	BUNCOMBE CO., NC MADISON CO., NC	ADDED MADISON COUNTY
ATLANTA, GA	BUTTS CO., GA CHEROKEE CO., GA CLAYTON CO., GA COBB CO., GA DE KALB CO., GA DOUGLAS CO., GA FAYETTE CO., GA FORSYTH CO., GA FULTON CO., GA GWINNETT CO., GA HENRY CO., GA NEWTON CO., GA PAULDING CO., GA ROCKDALE CO., GA WALTON CO., GA	ADDED BUTTS, CHEROKEE, DOUGLAS, FAYETTE, FORSYTH, HENRY, NEWTON, PAULDING, ROCKDALE, AND WALTON COUNTIES
ATLANTIC CITY, NJ	ATLANTIC CO., NJ	
AUGUSTA, GA-SC	AIKEN CO., SC COLUMBIA CO., GA RICHMOND CO., GA	ADDED COLUMBIA COUNTY IN GA

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
AUSTIN, TX	HAYS CO.,TX TRAVIS CO.,TX	ADDED HAYS COUNTY
BAKERSFIELD, CA	KERN CO.,CA	
BALTIMORE, MD	ANNE ARUNDEL CO.,MD BALTIMORE CO.,MD CARROLL CO.,MD HARFORD CO.,MD HOWARD CO.,MD BALTIMORE CITY,MD	
BATON ROUGE, LA	ASCENSION PARISH,LA EAST BATON ROUGE PARISH,LA LIVINGSTON PARISH,LA WEST BATON ROUGE PARISH,LA	ADDED ASCENSION, LIVINGSTON, AND WEST BATON ROUGE PARISHES
BATTLE CREEK, MI	BARRY CO.,MI CALHOUN CO.,MI	NEW SMSA
BAY CITY, MI	BAY CO.,MI	
BEAUMONT-PORT ARTHUR-ORANGE, TX	HARDIN CO.,TX JEFFERSON CO.,TX ORANGE CO.,TX	ADDED HARDIN COUNTY
BILLINGS, MT	YELLOWSTONE CO.,MT	
BILOXI-GULFPORT, MS	HANCOCK CO.,MS HARRISON CO.,MS STONE CO.,MS	ADDED HANCOCK AND STONE COUNTIES
BINGHAMTON, NY-PA	BROOME CO.,NY TIOGA CO.,NY SUSQUEHANNA CO.,PA	
BIRMINGHAM, AL	JEFFERSON CO.,AL ST CLAIR CO.,AL SHELBY CO.,AL WALKER CO.,AL	ADDED ST. CLAIR COUNTY
BLOOMINGTON-NORMAL, IL	MC LEAN CO.,IL	
BOISE CITY, ID	ADA CO.,ID	
BOSTON, MA	ESSEX COUNTY,MA (PART) BEVERLY CITY,MA BOXFORD TOWN,MA DANVERS TOWN,MA HAMILTON TOWN,MA LYNN CITY,MA LYNNFIELD TOWN,MA MANCHESTER TOWN,MA MARBLEHEAD TOWN,MA MIDDLETON TOWN,MA NAHANT TOWN,MA PEABODY CITY,MA SALEM CITY,MA SAUGUS TOWN,MA SWAMPSCOTT TOWN,MA TOPSFIELD TOWN,MA WENHAM TOWN,MA MIDDLESEX COUNTY,MA (PART) ACTON TOWN,MA ARLINGTON TOWN,MA ASHLAND TOWN,MA BEDFORD TOWN,MA BELMONT TOWN,MA BOXBOROUGH TOWN,MA BURLINGTON TOWN,MA CAMBRIDGE CITY,MA CARLISLE TOWN,MA CONCORD TOWN,MA EVERETT CITY,MA FRAMINGHAM TOWN,MA HOLLISTON TOWN,MA LEXINGTON TOWN,MA LINCOLN TOWN,MA MALDEN CITY,MA MEDFORD CITY,MA MELROSE CITY,MA NATICK TOWN,MA NEWTON CITY,MA	ADDED BOXFORD TOWN IN ESSEX COUNTY, ACTON, BOXBOROUGH, CARLISLE, AND HOLLISTON TOWNS IN MIDDLESEX COUNTY, BELLINGHAM, FOXBOROUGH, FRANKLIN, MEDWAY, STOUGHTON, AND WRENTHAM TOWNS IN NORFOLK COUNTY, AND ABINGTON, HANSON, AND KINGSTON TOWNS IN PLYMOUTH COUNTY

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
BOSTON, MA--CONTINUED	<p>MIDDLESEX COUNTY, MA (PART)--CONTINUED</p> <p>NORTH READING TOWN, MA</p> <p>READING TOWN, MA</p> <p>SHERBORN TOWN, MA</p> <p>SOMERVILLE CITY, MA</p> <p>STONEHAM TOWN, MA</p> <p>SUDBURY TOWN, MA</p> <p>WAKEFIELD TOWN, MA</p> <p>WALTHAM CITY, MA</p> <p>WATERTOWN TOWN, MA</p> <p>WAYLAND TOWN, MA</p> <p>WESTON TOWN, MA</p> <p>WILMINGTON TOWN, MA</p> <p>WINCHESTER TOWN, MA</p> <p>WOBURN CITY, MA</p> <p>NORFOLK COUNTY, MA (PART)</p> <p>BELLINGHAM TOWN, MA</p> <p>BRAINTREE TOWN, MA</p> <p>BROOKLINE TOWN, MA</p> <p>CANTON TOWN, MA</p> <p>COHASSET TOWN, MA</p> <p>DEDHAM TOWN, MA</p> <p>DOVER TOWN, MA</p> <p>FOXBOROUGH TOWN, MA</p> <p>FRANKLIN TOWN, MA</p> <p>HOLBROOK TOWN, MA</p> <p>MEDFIELD TOWN, MA</p> <p>MEDWAY TOWN, MA</p> <p>MILLIS TOWN, MA</p> <p>MILTON TOWN, MA</p> <p>NEEDHAM TOWN, MA</p> <p>NORFOLK TOWN, MA</p> <p>NORWOOD TOWN, MA</p> <p>QUINCY CITY, MA</p> <p>RANDOLPH TOWN, MA</p> <p>SHARON TOWN, MA</p> <p>STOUGHTON TOWN, MA</p> <p>WALPOLE TOWN, MA</p> <p>WELLESLEY TOWN, MA</p> <p>WESTWOOD TOWN, MA</p> <p>WEYMOUTH TOWN, MA</p> <p>WRENTHAM TOWN, MA</p> <p>PLYMOUTH COUNTY, MA (PART)</p> <p>ABINGTON TOWN, MA</p> <p>DUXBURY TOWN, MA</p> <p>HANOVER TOWN, MA</p> <p>HANSON TOWN, MA</p> <p>HINGHAM TOWN, MA</p> <p>HULL TOWN, MA</p> <p>KINGSTON TOWN, MA</p> <p>MARSHFIELD TOWN, MA</p> <p>NORWELL TOWN, MA</p> <p>PEMBROKE TOWN, MA</p> <p>ROCKLAND TOWN, MA</p> <p>SCITUATE TOWN, MA</p> <p>SUFFOLK COUNTY, MA</p> <p>BOSTON CITY, MA</p> <p>CHELSEA CITY, MA</p> <p>REVERE CITY, MA</p> <p>WINTHROP TOWN, MA</p>	
BRIDGEPORT, CT	<p>FAIRFIELD COUNTY, CT (PART)</p> <p>BRIDGEPORT CITY, CT</p> <p>EASTON TOWN, CT</p> <p>FAIRFIELD TOWN, CT</p> <p>MONROE TOWN, CT</p> <p>SHELTON CITY, CT</p> <p>STRATFORD TOWN, CT</p> <p>TRUMBULL TOWN, CT</p> <p>NEW HAVEN COUNTY, CT (PART)</p> <p>DERBY CITY, CT</p> <p>MILFORD CITY, CT</p>	ADDED DERBY CITY IN NEW HAVEN COUNTY
BRISTOL, CT	<p>HARTFORD COUNTY, CT (PART)</p> <p>BRISTOL CITY, CT</p> <p>BURLINGTON TOWN, CT</p> <p>LITCHFIELD COUNTY, CT (PART)</p> <p>PLYMOUTH TOWN, CT</p>	NEW SMSA

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
BROCKTON, MA	BRISTOL COUNTY, MA (PART) EASTON TOWN, MA NORFOLK COUNTY, MA (PART) AVON TOWN, MA PLYMOUTH COUNTY, MA (PART) BRIDGEWATER TOWN, MA BROCKTON CITY, MA EAST BRIDGEWATER TOWN, MA HALIFAX TOWN, MA WEST BRIDGEWATER TOWN, MA WHITMAN TOWN, MA	ADDED HALIFAX TOWN IN PLYMOUTH COUNTY, DROPPED STOUGHTON TOWN IN NORFOLK COUNTY, AND ABINGTON AND HANSON TOWNS IN PLYMOUTH COUNTY
BROWNSVILLE-HARLINGEN-SAN BENITO, TX	CAMERON CO., TX	
BRYAN-COLLEGE STATION, TX	BRAZOS CO., TX	NEW SMSA
BUFFALO, NY	ERIE CO., NY NIAGARA CO., NY	
BURLINGTON, NC	ALAMANCE CO., NC	NEW SMSA
CANTON, OH	CARROLL CO., OH STARK CO., OH	ADDED CARROLL COUNTY
CEDAR RAPIDS, IA	LINN CO., IA	
CHAMPAIGN-URBANA-RANTOUL, IL	CHAMPAIGN CO., IL	CHAMPAIGN-URBANA SMSA RETITLED AS CHAMPAIGN-URBANA-RANTOUL SMSA
CHARLESTON, SC	BERKELEY CO., SC CHARLESTON CO., SC DORCHESTER CO., SC	ADDED DORCHESTER COUNTY
CHARLESTON, WV	KANAWHA CO., WV PUTNAM CO., WV	ADDED PUTNAM COUNTY
CHARLOTTE-GASTONIA, NC	GASTON CO., NC MECKLENBURG CO., NC UNION CO., NC	COMBINED CHARLOTTE SMSA WITH GASTONIA SMSA
CHATTANOOGA, TN-GA	CATOOSA CO., GA DADE CO., GA WALKER CO., GA HAMILTON CO., TN MARION CO., TN SEQUATCHIE CO., TN	ADDED MARION, SEQUATCHIE, CATOOSA, AND DADE COUNTIES
CHICAGO, IL	COOK CO., IL DU PAGE CO., IL KANE CO., IL LAKE CO., IL MC HENRY CO., IL WILL CO., IL	
CINCINNATI, OH-KY-IN	CLERMONT CO., OH HAMILTON CO., OH WARREN CO., OH DEARBORN CO., IN BOONE CO., KY CAMPBELL CO., KY KENTON CO., KY	
CLEVELAND, OH	CUYAHOGA CO., OH GEAUGA CO., OH LAKE CO., OH MEDINA CO., OH	
COLORADO SPRINGS, CO	EL PASO CO., CO TELLER CO., CO	ADDED TELLER COUNTY
COLUMBIA, MO	BOONE CO., MO	NEW SMSA
COLUMBIA, SC	LEXINGTON CO., SC RICHLAND CO., SC	
COLUMBUS, GA-AL	CHATTAHOOCHEE CO., GA COLUMBUS CITY, GA RUSSELL CO., AL	CONSOLIDATED COLUMBUS CITY AND MUSCOGEE COUNTY INTO COLUMBUS CITY

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
COLUMBUS, OH	DELAWARE CO., OH FAIRFIELD CO., OH FRANKLIN CO., OH MADISON CO., OH PICKAWAY CO., OH	ADDED FAIRFIELD AND MADISON COUNTIES
CORPUS CHRISTI, TX	NUECES CO., TX SAN PATRICIO CO., TX	
DALLAS-FORT WORTH, TX	COLLIN CO., TX DALLAS CO., TX DENTON CO., TX ELLIS CO., TX HOOD CO., TX JOHNSON CO., TX KAUFMAN CO., TX PARKER CO., TX ROCKWALL CO., TX TARRANT CO., TX WISE CO., TX	COMBINED DALLAS SMSA WITH FORT WORTH SMSA AND ADDED HOOD, PARKER, AND WISE COUNTIES
DANBURY, CT	FAIRFIELD COUNTY, CT (PART) BETHEL TOWN, CT BROOKFIELD TOWN, CT DANBURY CITY, CT NEW FAIRFIELD TOWN, CT NEWTOWN TOWN, CT REDDING TOWN, CT LITCHFIELD COUNTY, CT (PART) NEW MILFORD TOWN, CT	NEW SMSA
DAVENPORT-ROCK ISLAND-MOLINE, IA-IL	HENRY CO., IL ROCK ISLAND CO., IL SCOTT CO., IA	
DAYTON, OH	GREENE CO., OH MIAMI CO., OH MONTGOMERY CO., OH PREBLE CO., OH	
DAYTONA BEACH, FL	VOLUSIA CO., FL	NEW SMSA
DECATUR, IL	MACON CO., IL	
DENVER-Boulder, CO	ADAMS CO., CO ARAPAHOE CO., CO BOULDER CO., CO DENVER CO., CO DOUGLAS CO., CO GILPIN CO., CO JEFFERSON CO., CO	ADDED DOUGLAS AND GILPIN COUNTIES
DES MOINES, IA	POLK CO., IA WARREN CO., IA	ADDED WARREN COUNTY
DETROIT, MI	LAPEER CO., MI LIVINGSTON CO., MI MACOMB CO., MI OAKLAND CO., MI ST CLAIR CO., MI WAYNE CO., MI	ADDED LAPEER, LIVINGSTON, AND ST. CLAIR COUNTIES
DUBUQUE, IA	DUBUQUE CO., IA	
DULUTH-SUPERIOR, MN-WI	DOUGLAS CO., WI ST LOUIS CO., MN	
EL PASO, TX	EL PASO CO., TX	
ELMIRA, NY	CHEMUNG CO., NY	NEW SMSA
ERIE, PA	ERIE CO., PA	
EUGENE-SPRINGFIELD, OR	LANE CO., OR	
EVANSVILLE, IN-KY	GIBSON CO., IN POSEY CO., IN VANDERBURGH CO., IN WARRICK CO., IN HENDERSON CO., KY	ADDED GIBSON AND POSEY COUNTIES

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
FALL RIVER, MA-RI	BRISTOL COUNTY, MA (PART) DIGHTON TOWN, MA FALL RIVER CITY, MA SOMERSET TOWN, MA SWANSEA TOWN, MA WESTPORT TOWN, MA NEWPORT COUNTY, RI (PART) LITTLE COMPTON TOWN, RI PORTSMOUTH TOWN, RI TIVERTON TOWN, RI	ADDED DIGHTON TOWN IN BRISTOL COUNTY, MA. AND LITTLE COMPTON AND PORTSMOUTH TOWNS IN NEWPORT COUNTY, RI
FARGO-MOORHEAD, ND-MN	CLAY CO., MN CASS CO., ND	
FAYETTEVILLE, NC	CUMBERLAND CO., NC	
FAYETTEVILLE-SPRINGDALE, AR	BENTON CO., AR WASHINGTON CO., AR	NEW SMSA
FITCHBURG-LEOMINSTER, MA	MIDDLESEX COUNTY, MA (PART) SHIRLEY TOWN, MA TOWNSEND TOWN, MA WORCESTER COUNTY, MA (PART) FITCHBURG CITY, MA LEOMINSTER CITY, MA LUNENBURG TOWN, MA WESTMINSTER TOWN, MA	
FLINT, MI	GENESEE CO., MI SHIAWASSEE CO., MI	ADDED SHIAWASSEE COUNTY, DROPPED LAPEER COUNTY
FLORENCE, AL	COLBERT CO., AL LAUDERDALE CO., AL	NEW SMSA
FORT LAUDERDALE-HOLLYWOOD, FL	BROWARD CO., FL	
FORT MYERS, FL	LEE CO., FL	NEW SMSA
FORT SMITH, AR-OK	CRAWFORD CO., AR SEBASTIAN CO., AR LE FLORE CO., OK SEQUOYAH CO., OK	
FORT WAYNE, IN	ADAMS CO., IN ALLEN CO., IN DE KALB CO., IN WELLS CO., IN	ADDED ADAMS, DE KALB, AND WELLS COUNTIES
FRESNO, CA	FRESNO CO., CA	
GADSDEN, AL	ETOWAH CO., AL	
GAINESVILLE, FL	ALACHUA CO., FL	NEW SMSA
GALVESTON-TEXAS CITY, TX	GALVESTON CO., TX	
GARY-HAMMOND-EAST CHICAGO, IN	LAKE CO., IN PORTER CO., IN	
GRAND RAPIDS, MI	KENT CO., MI OTTAWA CO., MI	
GREAT FALLS, MT	CASCADE CO., MT	
GREEN BAY, WI	BROWN CO., WI	
GREENSBORO--WINSTON-SALEM--HIGH POINT, NC	DAVIDSON CO., NC FORSYTH CO., NC GUILFORD CO., NC RANDOLPH CO., NC STOKES CO., NC YADKIN CO., NC	ADDED DAVIDSON AND STOKES COUNTIES
GREENVILLE-SPARTANBURG, SC	GREENVILLE CO., SC PICKENS CO., SC SPARTANBURG CO., SC	GREENVILLE SMSA RETITLED AS GREENVILLE- SPARTANBURG SMSA, ADDED SPARTANBURG COUNTY
HAMILTON-MIDDLETOWN, OH	BUTLER CO., OH	
HARRISBURG, PA	CUMBERLAND CO., PA DAUPHIN CO., PA PERRY CO., PA	

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
HARTFORD, CT	<p>HARTFORD COUNTY,CT (PART)</p> <p>AVON TOWN,CT</p> <p>BLOOMFIELD TOWN,CT</p> <p>CANTON TOWN,CT</p> <p>EAST GRANBY TOWN,CT</p> <p>EAST HARTFORD TOWN,CT</p> <p>EAST WINDSOR TOWN,CT</p> <p>ENFIELD TOWN,CT</p> <p>FARMINGTON TOWN,CT</p> <p>GLASTONBURY TOWN,CT</p> <p>GRANBY TOWN,CT</p> <p>HARTFORD CITY,CT</p> <p>MANCHESTER TOWN,CT</p> <p>MARLBOROUGH TOWN,CT</p> <p>NEWINGTON TOWN,CT</p> <p>ROCKY HILL TOWN,CT</p> <p>SIMSBURY TOWN,CT</p> <p>SOUTH WINDSOR TOWN,CT</p> <p>SUFFIELD TOWN,CT</p> <p>WEST HARTFORD TOWN,CT</p> <p>WETHERSFIELD TOWN,CT</p> <p>WINDSOR LOCKS TOWN,CT</p> <p>WINDSOR TOWN,CT</p> <p>LITCHFIELD COUNTY,CT (PART)</p> <p>NEW HARTFORD TOWN,CT</p> <p>MIDDLESEX COUNTY,CT (PART)</p> <p>CROMWELL TOWN,CT</p> <p>EAST HAMPTON TOWN,CT</p> <p>PORTLAND TOWN,CT</p> <p>NEW LONDON COUNTY,CT (PART)</p> <p>COLCHESTER TOWN,CT</p> <p>TOLLAND COUNTY,CT (PART)</p> <p>ANDOVER TOWN,CT</p> <p>BOLTON TOWN,CT</p> <p>COLUMBIA TOWN,CT</p> <p>COVENTRY TOWN,CT</p> <p>ELLINGTON TOWN,CT</p> <p>HEBRON TOWN,CT</p> <p>STAFFORD TOWN,CT</p> <p>TOLLAND TOWN,CT</p> <p>VERNON TOWN,CT</p> <p>WILLINGTON TOWN,CT</p>	<p>ADDED MARLBOROUGH TOWN IN HARTFORD COUNTY, NEW HARTFORD TOWN IN LITCHFIELD COUNTY, EAST HAMPTON AND PORTLAND TOWNS IN MIDDLESEX COUNTY, COLCHESTER TOWN IN NEW LONDON COUNTY, AND COLUMBIA, HEBRON, STAFFORD, TOLLAND, AND WILLINGTON TOWNS IN TOLLAND COUNTY</p>
HONOLULU, HI	HONOLULU CO.,HI	
HOUSTON, TX	<p>BRAZORIA CO.,TX</p> <p>FORT BEND CO.,TX</p> <p>HARRIS CO.,TX</p> <p>LIBERTY CO.,TX</p> <p>MONTGOMERY CO.,TX</p> <p>WALLER CO.,TX</p>	ADDED WALLER COUNTY
HUNTINGTON-ASHLAND, WV-KY-OH	<p>LAWRENCE CO.,OH</p> <p>CABELL CO.,WV</p> <p>WAYNE CO.,WV</p> <p>BOYD CO.,KY</p> <p>GREENUP CO.,KY</p>	ADDED GREENUP COUNTY
HUNTSVILLE, AL	<p>LIMESTONE CO.,AL</p> <p>MADISON CO.,AL</p> <p>MARSHALL CO.,AL</p>	ADDED MARSHALL COUNTY
INDIANAPOLIS, IN	<p>BOONE CO.,IN</p> <p>HAMILTON CO.,IN</p> <p>HANCOCK CO.,IN</p> <p>HENDRICKS CO.,IN</p> <p>JOHNSON CO.,IN</p> <p>MARION CO.,IN</p> <p>MORGAN CO.,IN</p> <p>SHELBY CO.,IN</p>	
JACKSON, MI	JACKSON CO.,MI	
JACKSON, MS	<p>HINDS CO.,MS</p> <p>RANKIN CO.,MS</p>	
JACKSONVILLE, FL	<p>BAKER CO.,FL</p> <p>CLAY CO.,FL</p> <p>DUVAL CO.,FL</p> <p>NASSAU CO.,FL</p> <p>ST JOHNS CO.,FL</p>	ADDED BAKER, CLAY, NASSAU, AND ST. JOHNS COUNTIES

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
JERSEY CITY, NJ	HUDSON CO., NJ	
JOHNSTOWN, PA	CAMBRIA CO., PA SOMERSET CO., PA	
KALAMAZOO-PORTAGE, MI	KALAMAZOO CO., MI VAN BUREN CO., MI	KALAMAZOO SMSA RETITLED AS KALAMAZOO-PORTAGE SMSA AND ADDED VAN BUREN COUNTY
KANSAS CITY, MO-KS	CASS CO., MO CLAY CO., MO JACKSON CO., MO PLATTE CO., MO RAY CO., MO JOHNSON CO., KS WYANDOTTE CO., KS	ADDED RAY COUNTY
KENOSHA, WI	KENOSHA CO., WI	
KILLEEN-TEMPLE, TX	BELL CO., TX CORYELL CO., TX	NEW SMSA
KINGSPORT-BRISTOL, TN-VA	SCOTT CO., VA WASHINGTON CO., VA BRISTOL CITY, VA HAWKINS CO., TN SULLIVAN CO., TN	NEW SMSA
KNOXVILLE, TN	ANDERSON CO., TN BLOUNT CO., TN KNOX CO., TN UNION CO., TN	
LA CROSSE, WI	LA CROSSE CO., WI	NEW SMSA
LAFAYETTE, LA	LAFAYETTE PARISH, LA	
LAFAYETTE-WEST LAFAYETTE, IN	TIPPECANOE CO., IN	
LAKE CHARLES, LA	CALCASIEU PARISH, LA	
LAKELAND-WINTER HAVEN, FL	POLK CO., FL	NEW SMSA
LANCASTER, PA	LANCASTER CO., PA	
LANSING-EAST LANSING, MI	CLINTON CO., MI EATON CO., MI INGHAM CO., MI IONIA CO., MI	ADDED IONIA COUNTY
LAREDO, TX	WEBB CO., TX	
LAS VEGAS, NV	CLARK CO., NV	
LAWRENCE-HAVERHILL, MA-NH	ROCKINGHAM COUNTY, NH (PART) ATKINSON TOWN, NH HAMPSTEAD TOWN, NH KINGSTON TOWN, NH NEWTON TOWN, NH PLAISTOW TOWN, NH SALEM TOWN, NH WINDHAM TOWN, NH ESSEX COUNTY, MA (PART) AMESBURY TOWN, MA ANDOVER TOWN, MA GEORGETOWN TOWN, MA GROVELAND TOWN, MA HAVERHILL CITY, MA LAWRENCE CITY, MA MERRIMAC TOWN, MA METHUEN TOWN, MA NORTH ANDOVER TOWN, MA SALISBURY TOWN, MA WEST NEWBURY TOWN, MA	ADDED ATKINSON, HAMPSTEAD, KINGSTON, AND WINDHAM TOWNS IN ROCKINGHAM COUNTY AND AMESBURY AND SALISBURY TOWNS IN ESSEX COUNTY
LAWTON, OK	COMANCHE CO., OK	
LEWISTON-AUBURN, ME	ANDROSCOGGIN COUNTY, ME (PART) AUBURN CITY, ME LEWISTON CITY, ME LISBON TOWN, ME	

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
LEXINGTON, KY	BOURBON CO., KY CLARK CO., KY FAYETTE CO., KY JESSAMINE CO., KY SCOTT CO., KY WOODFORD CO., KY	ADDED BOURBON, CLARK, JESSAMINE, SCOTT, AND WOODFORD COUNTIES
LIMA, OH	ALLEN CO., OH AUGLAIZE CO., OH PUTNAM CO., OH VAN WERT CO., OH	ADDED AUGLAIZE COUNTY
LINCOLN, NE	LANCASTER CO., NE	
LITTLE ROCK-NORTH LITTLE ROCK, AR	PULASKI CO., AR SALINE CO., AR	
LONG BRANCH-ASBURY PARK, NJ	MONMOUTH CO., NJ	NEW SMSA
LORAIN-ELYRIA, OH	LORAIN CO., OH	
LOS ANGELES-LONG BEACH, CA	LOS ANGELES CO., CA	
LOUISVILLE, KY-IN	CLARK CO., IN FLOYD CO., IN BULLITT CO., KY JEFFERSON CO., KY OLDHAM CO., KY	ADDED BULLITT AND OLDHAM
LOWELL, MA-NH	HILLSBOROUGH COUNTY, NH (PART) PELHAM TOWN, NH MIDDLESEX COUNTY, MA (PART) BILLERICA TOWN, MA CHELMSFORD TOWN, MA DRACUT TOWN, MA LOWELL CITY, MA TEWKSBURY TOWN, MA TYNGSBOROUGH TOWN, MA WESTFORD TOWN, MA	ADDED PELHAM TOWN IN HILLSBOROUGH COUNTY
LUBBOCK, TX	LUBBOCK CO., TX	
LYNCHBURG, VA	AMHERST CO., VA APPOMATTOX CO., VA CAMPBELL CO., VA LYNCHBURG CITY, VA	ADDED APPOMATTOX COUNTY
MACON, GA	BIBB CO., GA HOUSTON CO., GA JONES CO., GA TWIGGS CO., GA	ADDED JONES AND TWIGGS COUNTIES
MADISON, WI	DANE CO., WI	
MANCHESTER, NH	HILLSBOROUGH COUNTY, NH (PART) BEDFORD TOWN, NH GOFFSTOWN TOWN, NH MANCHESTER CITY, NH MERRIMACK COUNTY, NH (PART) ALLENSTOWN TOWN, NH HOOKSETT TOWN, NH PEMBROKE TOWN, NH ROCKINGHAM COUNTY, NH (PART) DERRY TOWN, NH LONDONDERRY TOWN, NH	ADDED ALLENSTOWN AND PEMBROKE TOWNS IN MERRIMACK COUNTY AND DERRY AND LONDON- DERRY TOWN IN ROCKINGHAM COUNTY
MANSFIELD, OH	RICHLAND CO., OH	
MCALLEN-PHARR-EDINBURG, TX	HIDALGO CO., TX	
MELBOURNE-TITUSVILLE-COCOA, FL	BREVARD CO., FL	NEW SMSA
MEMPHIS, TN-AR-MS	SHELBY CO., TN TIPTON CO., TN DE SOTO CO., MS CRITTENDEN CO., AR	TIPTON COUNTY AND DE SOTO COUNTY
MERIDEN, CT	NEW HAVEN COUNTY, CT (PART) MERIDEN CITY, CT	
MIAMI, FL	DADE CO., FL	

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
MIDLAND, TX	MIDLAND CO.,TX	
MILWAUKEE, WI	MILWAUKEE CO.,WI OZAUKEE CO.,WI WASHINGTON CO.,WI WAUKESHA CO.,WI	
MINNEAPOLIS-ST PAUL, MN-WI	ST CROIX CO.,WI ANOKA CO.,MN CARVER CO.,MN CHISAGO CO.,MN DAKOTA CO.,MN HENNEPIN CO.,MN RAMSEY CO.,MN SCOTT CO.,MN WASHINGTON CO.,MN WRIGHT CO.,MN	ADDED CARVER, CHISAGO, SCOTT, AND WRIGHT COUNTIES IN MN., AND ST. CROIX COUNTY IN WI
MOBILE, AL	BALDWIN CO.,AL MOBILE CO.,AL	
MODESTO, CA	STANISLAUS CO.,CA	NEW SMSA
MONROE, LA	OUACHITA PARISH,LA	
MONTGOMERY, AL	AUTAUGA CO.,AL ELMORE CO.,AL MONTGOMERY CO.,AL	ADDED AUTAUGA COUNTY
MUNCIE, IN	DELAWARE CO.,IN	
MUSKEGON-MUSKEGON HEIGHTS, MI	MUSKEGON CO.,MI OCEANA CO.,MI	ADDED OCEANA COUNTY
NASHUA, NH	HILLSBOROUGH COUNTY,NH (PART) AMHERST TOWN,NH HUDSON TOWN,NH MERRIMACK TOWN,NH MILFORD TOWN,NH NASHUA CITY,NH	NEW SMSA
NASHVILLE-DAVIDSON, TN	CHEATHAM CO.,TN DAVIDSON CO.,TN DICKSON CO.,TN ROBERTSON CO.,TN RUTHERFORD CO.,TN SUMNER CO.,TN WILLIAMSON CO.,TN WILSON CO.,TN	NASHVILLE SMSA RETITLED AS NASHVILLE-DAVIDSON SMSA, ADDED CHEATHAM, DICKSON, ROBERTSON, RUTHERFORD, AND WILLIAMSON COUNTIES
NASSAU-SUFFOLK, NY	NASSAU CO.,NY SUFFOLK CO.,NY	NEW SMSA
NEW BEDFORD, MA	BRISTOL COUNTY,MA (PART) ACUSHNET TOWN,MA DARTMOUTH TOWN,MA FAIRHAVEN TOWN,MA FREETOWN TOWN,MA NEW BEDFORD CITY,MA PLYMOUTH COUNTY,MA (PART) LAKEVILLE TOWN,MA MARION TOWN,MA MATTAPOISETT TOWN,MA	ADDED FREETOWN TOWN IN BRISTOL COUNTY AND LAKEVILLE TOWN IN PLYMOUTH COUNTY
NEW BRITAIN, CT	HARTFORD COUNTY,CT (PART) BERLIN TOWN,CT NEW BRITAIN CITY,CT PLAINVILLE TOWN,CT SOUTHINGTON TOWN,CT	
NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE, N.J.	MIDDLESEX CO.,NJ	NEW SMSA
NEW HAVEN-WEST HAVEN, CT	MIDDLESEX COUNTY,CT (PART) CLINTON TOWN,CT KILLINGWORTH TOWN,CT	NEW HAVEN SMSA WAS RETITLED AS NEW HAVEN-WEST HAVEN SMSA ADDED CLINTON AND KILLINGWORTH TOWNS IN MIDDLESEX COUNTY AND MADISON AND WALLINGFORD TOWNS IN NEW HAVEN COUNTY

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
NEW HAVEN—WEST HAVEN, CT--CON.	NEW HAVEN COUNTY, CT (PART) BETHANY TOWN, CT BRANFORD TOWN, CT EAST HAVEN TOWN, CT GUILFORD TOWN, CT HAMDEN TOWN, CT MADISON TOWN, CT NEW HAVEN CITY, CT NORTH BRANFORD TOWN, CT NORTH HAVEN TOWN, CT ORANGE TOWN, CT WALLINGFORD TOWN, CT WEST HAVEN CITY, CT WOODBRIIDGE TOWN, CT	
NEW LONDON—NORWICH, CT-RI	WASHINGTON COUNTY, RI (PART) HOPKINTON TOWN, RI WESTERLY TOWN, RI MIDDLESEX COUNTY, CT (PART) OLD SAYBROOK TOWN, CT NEW LONDON COUNTY, CT (PART) BOZRAH TOWN, CT EAST LYME TOWN, CT GRISWOLD TOWN, CT GROTON TOWN, CT LEDYARD TOWN, CT LISBON TOWN, CT MONTVILLE TOWN, CT NEW LONDON CITY, CT NORWICH CITY, CT OLD LYME TOWN, CT PRESTON TOWN, CT SPRAGUE TOWN, CT STONINGTON TOWN, CT WATERFORD TOWN, CT	NEW LONDON—GROTON—NORWICH SMSA RETITLED AS NEW LONDON—NORWICH SMSA, ADDED HOPKINTON AND WESTERLY TOWNS IN WASHINGTON COUNTY, OLD SAYBROOK TOWN IN MIDDLESEX COUNTY AND BOZRAH TOWN IN NEW LONDON COUNTY
NEW ORLEANS, LA	JEFFERSON PARISH, LA ORLEANS PARISH, LA ST BERNARD PARISH, LA ST TAMMANY PARISH, LA	
NEW YORK, NY-NJ	BRONX CO., NY KINGS CO., NY NEW YORK CO., NY PUTNAM CO., NY QUEENS CO., NY RICHMOND CO., NY ROCKLAND CO., NY WESTCHESTER CO., NY BERGEN CO., NJ	ADDED BERGEN COUNTY, NJ. AND PUTNAM COUNTY, NY., NASSAU AND SUFFOLK COUNTIES WERE DROPPED
NEWARK, NJ	ESSEX CO., NJ MORRIS CO., NJ SOMERSET CO., NJ UNION CO., NJ	ADDED SOMERSET COUNTY
NEWPORT NEWS—HAMPTON, VA	GLOUCESTER CO., VA JAMES CITY CO., VA YORK CO., VA HAMPTON CITY, VA NEWPORT NEWS CITY, VA WILLIAMSBURG CITY, VA	ADDED WILLIAMSBURG CITY AND GLOUCESTER AND JAMES CITY COUNTIES
NORFOLK—VIRGINIA BEACH—PORTSMOUTH, VA-NC	CHESAPEAKE CITY, VA NANSEMOND CITY, VA NORFOLK CITY, VA PORTSMOUTH CITY, VA SUFFOLK CITY, VA VIRGINIA BEACH CITY, VA CURRITUCK CO., NC	ADDED NANSEMOND AND SUFFOLK CITIES IN VA. AND CURRITUCK COUNTY IN NC
NORTHEAST PENNSYLVANIA, PA	LACKAWANNA CO., PA LUZERNE CO., PA MONROE CO., PA	COMBINED SCRANTON SMSA WITH WILKES-BARRE—HAZLETON SMSA
NORWALK, CT	FAIRFIELD COUNTY, CT (PART) NORWALK CITY, CT WESTON TOWN, CT WESTPORT TOWN, CT WILTON TOWN, CT	ADDED WESTON TOWN IN FAIRFIELD COUNTY
ODESSA, TX	ECTOR CO., TX	

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
OKLAHOMA CITY, OK	CANADIAN CO.,OK CLEVELAND CO.,OK MC CLAIN CO.,OK OKLAHOMA CO.,OK POTTAWATOMIE CO.,OK	ADDED MC CLAIN AND POTTAWATOMIE COUNTIES
OMAHA, NE-IA	POTTAWATTAMIE CO.,IA DOUGLAS CO.,NE SARPY CO.,NE	
ORLANDO, FL	ORANGE CO.,FL OSCEOLA CO.,FL SEMINOLE CO.,FL	ADDED OSCEOLA COUNTY
OWENSBORO, KY	DAVIESS CO.,KY	NEW SMSA
OXNARD-SIMI VALLEY-VENTURA, CA	VENTURA CO.,CA	OXNARD-VENTURA SMSA RETITLED AS OXNARD-SIMI VALLEY-VENTURA
PARKERSBURG-MARIETTA, WV-OH	WASHINGTON CO.,OH WIRT CO.,WV WOOD CO.,WV	NEW SMSA
PATERSON-CLIFTON-PASSAIC, NJ	PASSAIC CO.,NJ	DROPPED BERGEN COUNTY
PENSACOLA, FL	ESCAMBIA CO.,FL SANTA ROSA CO.,FL	
PEORIA, IL	PEORIA CO.,IL TAZEWELL CO.,IL WOODFORD CO.,IL	
PETERSBURG-COLONIAL HEIGHTS-HOPEWELL, VA	DINWIDDIE CO.,VA PRINCE GEORGE CO.,VA COLONIAL HEIGHTS CITY,VA HOPEWELL CITY,VA PETERSBURG CITY,VA	NEW SMSA
PHILADELPHIA, PA-NJ	BURLINGTON CO.,NJ CAMDEN CO.,NJ GLOUCESTER CO.,NJ BUCKS CO.,PA CHESTER CO.,PA DELAWARE CO.,PA MONTGOMERY CO.,PA PHILADELPHIA CO.,PA	
PHOENIX, AZ	MARICOPA CO.,AZ	
PINE BLUFF, AR	JEFFERSON CO.,AR	
PITTSBURGH, PA	ALLEGHENY CO.,PA BEAVER CO.,PA WASHINGTON CO.,PA WESTMORELAND CO.,PA	
PITTSFIELD, MA	BERKSHIRE COUNTY,MA (PART) ADAMS TOWN,MA CHESHIRE TOWN,MA DALTON TOWN,MA LANESBOROUGH TOWN,MA LEE TOWN,MA LENOX TOWN,MA PITTSFIELD CITY,MA STOCKBRIDGE TOWN,MA	ADDED ADAMS, CHESHIRE, AND STOCKBRIDGE TOWNS IN BERKSHIRE COUNTY
PORTLAND, ME	CUMBERLAND COUNTY,ME (PART) CAPE ELIZABETH TOWN,ME CUMBERLAND TOWN,ME FALMOUTH TOWN,ME FREEPORT TOWN,ME GORHAM TOWN,ME PORTLAND CITY,ME SCARBOROUGH TOWN,ME SOUTH PORTLAND CITY,ME WESTBROOK CITY,ME WINDHAM TOWN,ME YARMOUTH TOWN,ME YORK COUNTY,ME (PART) OLD ORCHARD BEACH TOWN,ME SACO CITY,ME	ADDED FREEPORT AND WINDHAM TOWNS IN CUMBERLAND COUNTY AND SACO CITY AND OLD ORCHARD BEACH TOWN IN YORK COUNTY

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
PORTLAND, OR-WA	CLARK CO.,WA CLACKAMAS CO.,OR MULTNOMAH CO.,OR WASHINGTON CO.,OR	
POUGHKEEPSIE, NY	DUTCHESS CO.,NY	NEW SMSA
PROVIDENCE-WARWICK-PAWTUCKET, RI-MA	BRISTOL COUNTY,MA (PART) ATTLEBORO CITY,MA NORTH ATTLEBOROUGH TOWN,MA NORTON TOWN,MA REHOBOTH TOWN,MA SEEKONK TOWN,MA NORFOLK COUNTY,MA (PART) PLAINVILLE TOWN,MA WORCESTER COUNTY,MA (PART) BLACKSTONE TOWN,MA MILLVILLE TOWN,MA BRISTOL COUNTY,RI (PART) BARRINGTON TOWN,RI BRISTOL TOWN,RI WARREN TOWN,RI KENT COUNTY,RI (PART) COVENTRY TOWN,RI EAST GREENWICH TOWN,RI WARWICK CITY,RI WEST WARWICK TOWN,RI NEWPORT COUNTY,RI (PART) JAMESTOWN TOWN,RI PROVIDENCE COUNTY,RI (PART) BURRILLVILLE TOWN,RI CENTRAL FALLS CITY,RI CRANSTON CITY,RI CUMBERLAND TOWN,RI EAST PROVIDENCE CITY,RI JOHNSTON TOWN,RI LINCOLN TOWN,RI NORTH PROVIDENCE TOWN,RI NORTH SMITHFIELD TOWN,RI PAWTUCKET CITY,RI PROVIDENCE CITY,RI SCITUATE TOWN,RI SMITHFIELD TOWN,RI WOONSOCKET CITY,RI WASHINGTON COUNTY,RI (PART) NARRAGANSETT TOWN,RI NORTH KINGSTOWN TOWN,RI SOUTH KINGSTOWN TOWN,RI	ADDED SCITUATE TOWN FROM PROVIDENCE COUNTY, AND NORTON TOWN FROM BRISTOL COUNTY, MA., DROPPED BELLINGHAM, FRANKLIN, AND WRENTHAM TOWNS IN NORFOLK COUNTY
PROVO-OREM, UT	UTAH CO.,UT	
PUEBLO, CO	PUEBLO CO.,CO	
RACINE, WI	RACINE CO.,WI	
RALEIGH-DURHAM, NC	DURHAM CO.,NC ORANGE CO.,NC WAKE CO.,NC	COMBINED RALEIGH SMSA WITH DURHAM SMSA
READING, PA	BERKS CO.,PA	
RENO, NV	WASHOE CO.,NV	
RICHLAND-KENNEWICK, WA	BENTON CO.,WA FRANKLIN CO.,WA	NEW SMSA
RICHMOND, VA	CHARLES CITY CO.,VA CHESTERFIELD CO.,VA GOOCHLAND CO.,VA HANOVER CO.,VA HENRICO CO.,VA POWHATAN CO.,VA RICHMOND CITY,VA	ADDED CHARLES CITY AND GOOCHLAND AND POWHATAN COUNTIES
RIVERSIDE-SAN BERNARDINO- ONTARIO, CA	RIVERSIDE CO.,CA SAN BERNARDINO CO.,CA	SAN BERNARDINO-RIVERSIDE-ONTARIO SMSA RETITLED AS RIVERSIDE-SAN BERNARDINO- ONTARIO SMSA

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
ROANOKE, VA	BOTETOURT CO.,VA CRAIG CO.,VA ROANOKE CO.,VA ROANOKE CITY,VA SALEM CITY,VA	ADDED SALEM CITY AND BOTETOURT AND CRAIG COUNTIES
ROCHESTER, MN	OLMSTED CO.,MN	NEW SMSA
ROCHESTER, NY	LIVINGSTON CO.,NY MONROE CO.,NY ONTARIO CO.,NY ORLEANS CO.,NY WAYNE CO.,NY	ADDED ONTARIO COUNTY
ROCKFORD, IL	BOONE CO.,IL WINNEBAGO CO.,IL	
SACRAMENTO, CA	PLACER CO.,CA SACRAMENTO CO.,CA YOLO CO.,CA	
SAGINAW, MI	SAGINAW CO.,MI	
ST CLOUD, MN	BENTON CO.,MN SHERBURNE CO.,MN STEARNS CO.,MN	NEW SMSA
ST JOSEPH, MO	ANDREW CO.,MO BUCHANAN CO.,MO	ADDED ANDREW COUNTY
ST LOUIS, MO-IL	CLINTON CO.,IL MADISON CO.,IL MONROE CO.,IL ST CLAIR CO.,IL FRANKLIN CO.,MO JEFFERSON CO.,MO ST CHARLES CO.,MO ST LOUIS CO.,MO ST LOUIS CITY,MO	ADDED CLINTON AND MONROE COUNTIES
SALEM, OR	MARION CO.,OR POLK CO.,OR	
SALINAS-SEASIDE-MONTEREY, CA	MONTEREY CO.,CA	SALINAS-MONTEREY SMSA RETITLED AS SALINAS-SEASIDE-MONTEREY SMSA
SALT LAKE CITY-OGDEN, UT	DAVIS CO.,UT SALT LAKE CO.,UT TOOELE CO.,UT WEBER CO.,UT	COMBINED SALT LAKE CITY SMSA WITH OGDEN SMSA
SAN ANGELO, TX	TOM GREEN CO.,TX	
SAN ANTONIO, TX	BEXAR CO.,TX COMAL CO.,TX GUADALUPE CO.,TX	ADDED COMAL COUNTY
SAN DIEGO, CA	SAN DIEGO CO.,CA	
SAN FRANCISCO-OAKLAND, CA	ALAMEDA CO.,CA CONTRA COSTA CO.,CA MARIN CO.,CA SAN FRANCISCO CO.,CA SAN MATEO CO.,CA	
SAN JOSE, CA	SANTA CLARA CO.,CA	
SANTA BARBARA-SANTA MARIA-LOMPOC, CA	SANTA BARBARA CO.,CA	SANTA BARBARA SMSA RETITLED AS SANTA BARBARA-SANTA MARIA-LOMPOC SMSA
SANTA CRUZ, CA	SANTA CRUZ CO.,CA	NEW SMSA
SANTA ROSA, CA	SONOMA CO.,CA	NEW SMSA
SARASOTA, FL	SARASOTA CO.,FL	NEW SMSA
SAVANNAH, GA	BRYAN CO.,GA CHATHAM CO.,GA EFFINGHAM CO.,GA	ADDED BRYAN AND EFFINGHAM
SEATTLE-EVERETT, WA	KING CO.,WA SNOHOMISH CO.,WA	
SHERMAN-DENISON, TX	GRAYSON CO.,TX	

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
SHREVEPORT, LA	BOSSIER PARISH, LA CADDO PARISH, LA WEBSTER PARISH, LA	ADDED WEBSTER PARISH
SIoux CITY, IA-NE	WOODBURY CO., IA DAKOTA CO., NE	
SIoux FALLS, SD	MINNEHAHA CO., SD	
SOUTH BEND, IN	MARSHALL CO., IN ST JOSEPH CO., IN	
SPOKANE, WA	SPOKANE CO., WA	
SPRINGFIELD, IL	MENARD CO., IL SANGAMON CO., IL	ADDED MENARD COUNTY
SPRINGFIELD, MO	CHRISTIAN CO., MO GREENE CO., MO	ADDED CHRISTIAN COUNTY
SPRINGFIELD, OH	CHAMPAIGN CO., OH CLARK CO., OH	ADDED CHAMPAIGN COUNTY
SPRINGFIELD-CHICOPEE-HOLYOKE, MA-CT	HAMPDEN COUNTY, MA (PART) AGAWAM TOWN, MA CHICOPEE CITY, MA EAST LONGMEADOW TOWN, MA HAMPDEN TOWN, MA HOLYOKE CITY, MA LONGMEADOW TOWN, MA LUDLOW TOWN, MA MONSON TOWN, MA PALMER TOWN, MA SOUTHWICK TOWN, MA SPRINGFIELD CITY, MA WESTFIELD CITY, MA WEST SPRINGFIELD TOWN, MA WILBRAHAM TOWN, MA HAMPSHIRE COUNTY, MA (PART) BELCHERTOWN TOWN, MA EASTHAMPTON TOWN, MA GRANBY TOWN, MA HADLEY TOWN, MA HATFIELD TOWN, MA NORTHAMPTON CITY, MA SOUTHAMPTON TOWN, MA SOUTH HADLEY TOWN, MA WORCESTER COUNTY, MA (PART) WARREN TOWN, MA TOLLAND COUNTY, CT (PART) SOMERS TOWN, CT	ADDED BELCHERTOWN, HATFIELD, AND SOUTHAMPTON TOWNS IN HAMPSHIRE COUNTY
STAMFORD, CT	FAIRFIELD COUNTY, CT (PART) DARIEN TOWN, CT GREENWICH TOWN, CT NEW CANAAN TOWN, CT STAMFORD CITY, CT	
STEUBENVILLE-WEIRTON, OH-WV	JEFFERSON CO., OH BROOKE CO., WV HANCOCK CO., WV	
STOCKTON, CA	SAN JOAQUIN CO., CA	
SYRACUSE, NY	MADISON CO., NY ONONDAGA CO., NY OSWEGO CO., NY	
TACOMA, WA	PIERCE CO., WA	
TALLAHASSEE, FL	LEON CO., FL WAKULLA CO., FL	ADDED WAKULLA COUNTY
TAMPA-ST PETERSBURG, FL	HILLSBOROUGH CO., FL PASCO CO., FL PINELLAS CO., FL	ADDED PASCO COUNTY
TERRE HAUTE, IN	CLAY CO., IN SULLIVAN CO., IN VERMILLION CO., IN VIGO CO., IN	

APPENDIX E—Continued

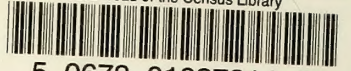
Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
TEXARKANA, TX-TEXARKANA, AR	LITTLE RIVER CO., AR MILLER CO., AR BOWIE CO., TX	ADDED LITTLE RIVER COUNTY IN AR
TOLEDO, OH-MI	FULTON CO., OH LUCAS CO., OH OTTAWA CO., OH WOOD CO., OH MONROE CO., MI	ADDED FULTON AND OTTAWA COUNTIES
TOPEKA, KS	JEFFERSON CO., KS OSAGE CO., KS SHAWNEE CO., KS	ADDED JEFFERSON AND OSAGE COUNTIES
TRENTON, NJ	MERCER CO., NJ	
TUCSON, AZ	PIMA CO., AZ	
TULSA, OK	CREEK CO., OK MAYES CO., OK OSAGE CO., OK ROGERS CO., OK TULSA CO., OK WAGONER CO., OK	ADDED MAYES, ROGERS, AND WAGONER COUNTIES
TUSCALOOSA, AL	TUSCALOOSA CO., AL	
TYLER, TX	SMITH CO., TX	
UTICA-ROME, NY	HERKIMER CO., NY ONEIDA CO., NY	
VALLEJO-FAIRFIELD-NAPA, CA	NAPA CO., CA SOLANO CO., CA	VALLEJO-NAPA SMSA RETITLED AS VALLEJO-FAIRFIELD-NAPA SMSA
VINELAND-MILLVILLE-BRIDGETON, NJ	CUMBERLAND CO., NJ	
WACO, TX	MC LENNAN CO., TX	
WASHINGTON, DC-MD-VA	CHARLES CO., MD MONTGOMERY CO., MD PRINCE GEORGES CO., MD DISTRICT OF COLUMBIA, DC ARLINGTON CO., VA FAIRFAX CO., VA LOUDOUN CO., VA PRINCE WILLIAM CO., VA ALEXANDRIA CITY, VA FAIRFAX CITY, VA FALLS CHURCH CITY, VA	ADDED CHARLES COUNTY IN MD
WATERBURY, CT	LITCHFIELD COUNTY, CT (PART) THOMASTON TOWN, CT WATERTOWN TOWN, CT WOODBURY TOWN, CT NEW HAVEN COUNTY, CT (PART) BEACON FALLS TOWN, CT CHESHIRE TOWN, CT MIDDLEBURY TOWN, CT NAUGATUCK BOROUGH, CT PROSPECT TOWN, CT SOUTHBURY TOWN, CT WATERBURY CITY, CT WOLCOTT TOWN, CT	ADDED SOUTHBURY TOWN IN NEW HAVEN COUNTY
WATERLOO-CEDAR FALLS, IA	BLACK HAWK CO., IA	WATERLOO SMSA RETITLED AS WATERLOO-CEDAR FALLS SMSA
WEST PALM BEACH-BOCA RATON, FL	PALM BEACH CO., FL	WEST PALM BEACH SMSA RETITLED AS WEST PALM BEACH-BOCA RATON SMSA
WHEELING, WV-OH	BELMONT CO., OH MARSHALL CO., WV OHIO CO., WV	
WICHITA, KS	BUTLER CO., KS SEDGWICK CO., KS	
WICHITA FALLS, TX	CLAY CO., TX WICHITA CO., TX	ADDED CLAY COUNTY AND DROPPED ARCHER COUNTY
WILLIAMSPORT, PA	LYCOMING CO., PA	NEW SMSA

APPENDIX E—Continued

Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
WILMINGTON, DE-NJ-MD	SALEM CO., NJ NEW CASTLE CO., DE CECIL CO., MD	
WILMINGTON, NC	BRUNSWICK CO., NC NEW HANOVER CO., NC	
WORCESTER, MA	WORCESTER COUNTY, MA (PART) AUBURN TOWN, MA BERLIN TOWN, MA BOYLSTON TOWN, MA BROOKFIELD TOWN, MA CHARLTON TOWN, MA EAST BROOKFIELD TOWN, MA GRAFTON TOWN, MA HOLDEN TOWN, MA LEICESTER TOWN, MA MILLBURY TOWN, MA NORTHBOROUGH TOWN, MA NORTHBRIDGE TOWN, MA NORTH BROOKFIELD TOWN, MA OXFORD TOWN, MA PAXTON TOWN, MA SHREWSBURY TOWN, MA SPENCER TOWN, MA STERLING TOWN, MA SUTTON TOWN, MA UPTON TOWN, MA UXBRIDGE TOWN, MA WEBSTER TOWN, MA WESTBOROUGH TOWN, MA WEST BOYLSTON TOWN, MA WORCESTER CITY, MA	ADDED CHARLTON, UXBRIDGE, AND WEBSTER TOWNS IN WORCESTER COUNTY
YAKIMA, WA	YAKIMA CO., WA	NEW SMSA
YORK, PA	ADAMS CO., PA YORK CO., PA	
YOUNGSTOWN-WARREN, OH	MAHONING CO., OH TRUMBULL CO., OH	



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